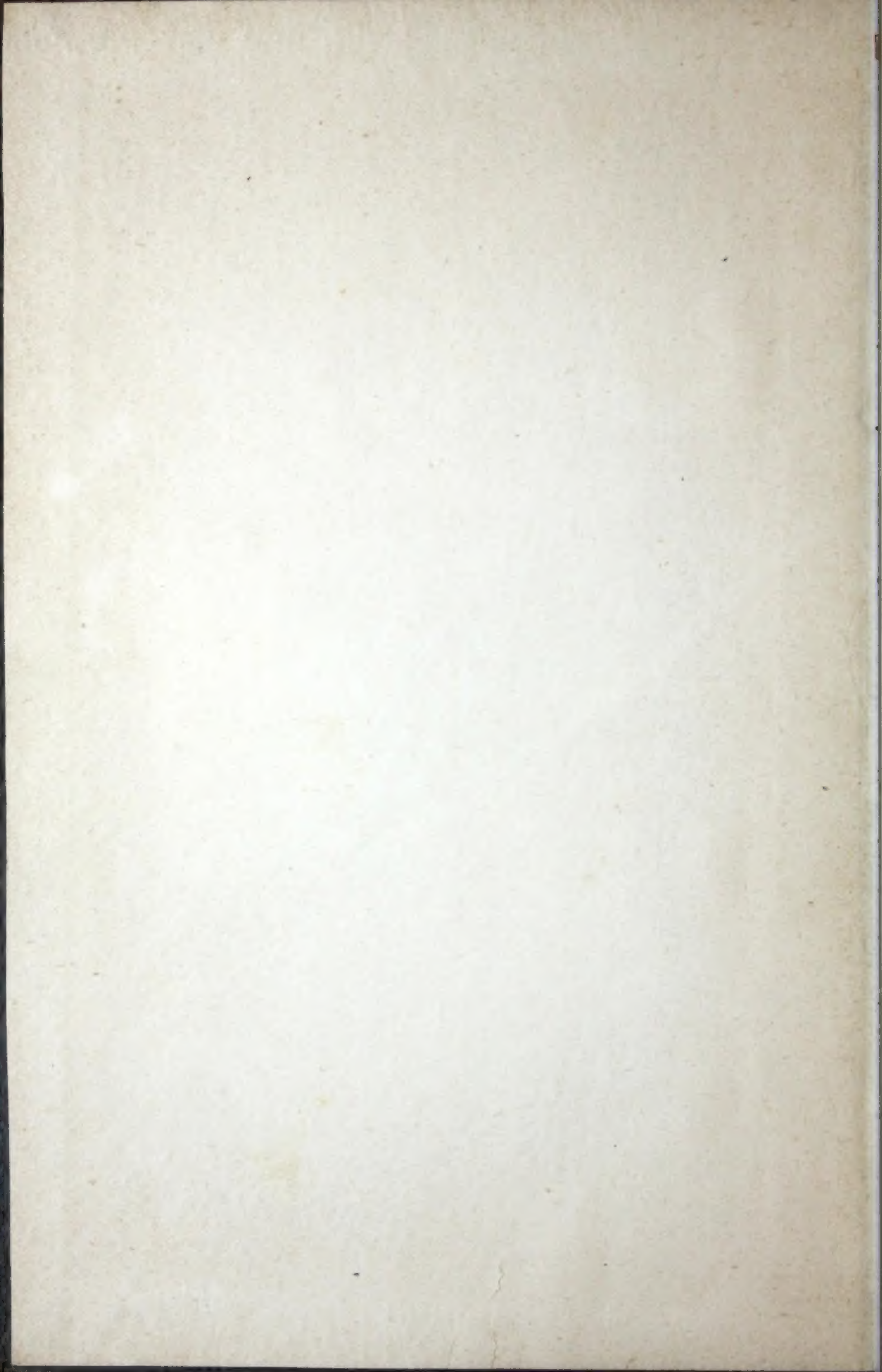


◆ 1896 ◆

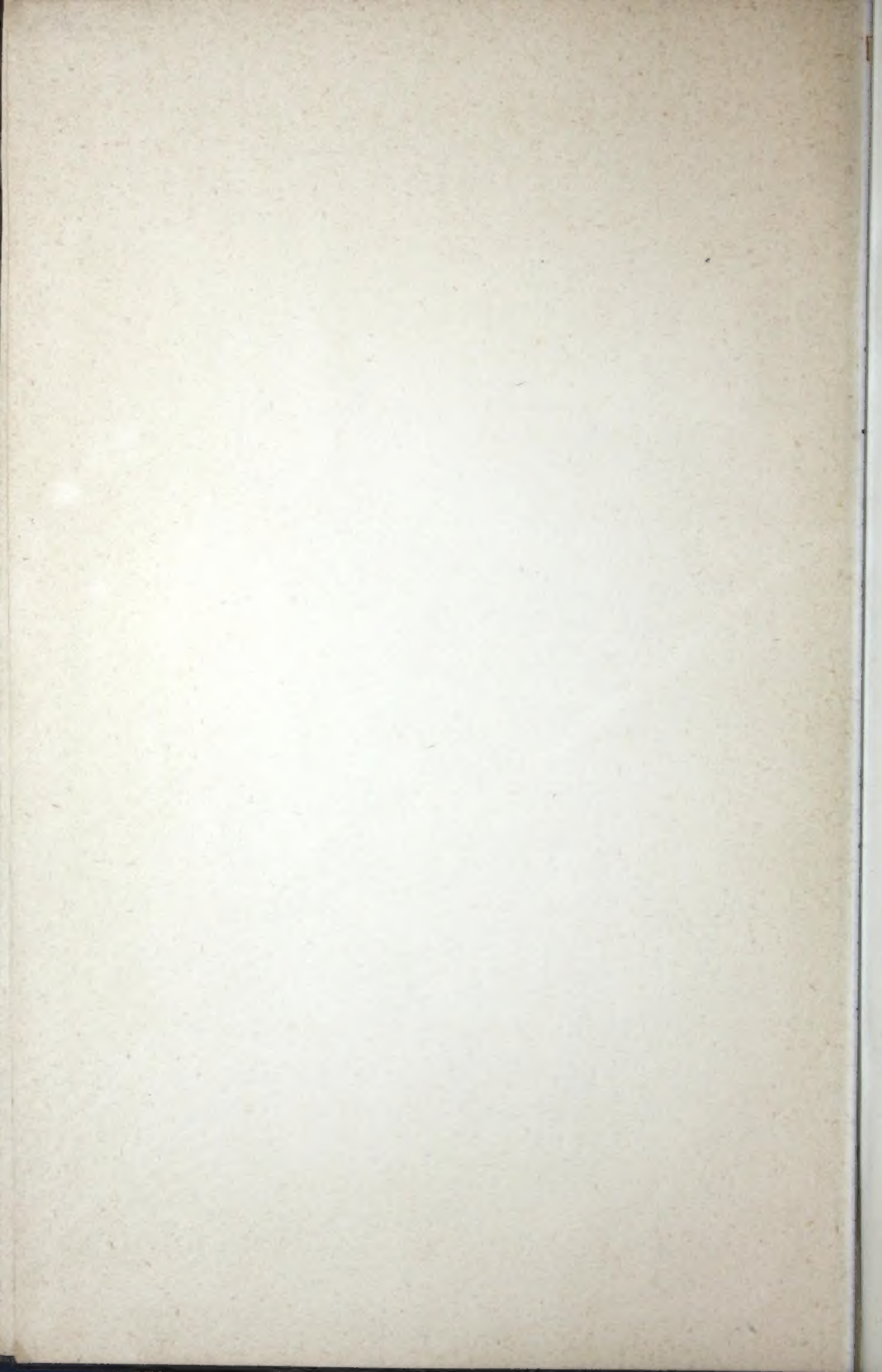
ILLUSTRATED CATALOGUE
AND PRICE LIST.

JACOB JAMER,

No. 84 JOHN STREET,
NEW YORK.



45
5



JACOB JAMER,

Manufacturer and Dealer in

WROUGHT & CAST IRON PIPE.

Brass and Iron Fittings, Valves, Cocks, Etc.,
for Steam, Water, Gas and Oil.

STEAM, GAS FITTERS' & PLUMBERS'
MATERIALS OF ALL KINDS.

RAILWAY, ENGINEERS', MACHINISTS', REFINERY, BREWERY AND MILL
SUPPLIES OF EVERY DESCRIPTION.

Tools for Steam and Gas Fitters, Plumbers, Engineers, Machinists,
Boiler Makers and Blacksmiths.

84 JOHN STREET, . . . NEW YORK.

CIRCULAR.

I take pleasure in presenting to my friends, the trade, and consumers generally, this Catalogue of Goods manufactured and sold by me.

In its compilation and arrangement I have sought to introduce such articles only as are calculated to meet the requirements of my trade, and have endeavored to make it as complete and accurate in detail as possible. For the guidance and convenience of my customers in ordering, I have illustrated the work to some extent.

The PRICES have been adjusted with great care. DISCOUNTS will be as great as the cost of goods warrants.

Goods and specialties of other manufacturers are at their prices. Articles, the prices of which are not stated, are in most instances special, and will be furnished at market rates.

The low prices of my goods, together with their quality, which I propose maintaining at the HIGHEST STANDARD, will, I trust, merit me a liberal share of patronage in the future as in the past.

All orders, with which I may be favored, will receive prompt and careful attention.

Respectfully,

JACOB JAMER.

TO SUPERSEDE ALL PREVIOUS LISTS.

Cypher for Convenience when Ordering Pipe by Wire.

NUMBER OF FEET.		SIZE.	BLACK.	SIZE.	GALVANIZED.
100	Asia,	$\frac{1}{8}$	Alleghany,	$\frac{1}{4}$	Amazon,
200	Belgium,	$\frac{1}{4}$	Baltimore,	$\frac{3}{8}$	Bay,
300	Chili,	$\frac{3}{8}$	Camden,	$\frac{1}{2}$	Colorado,
400	Denmark,	$\frac{1}{2}$	Detroit,	$\frac{3}{4}$	Danube,
500	Egypt,	$\frac{3}{4}$	Erie,	1	Elbe,
600	France,	1	Fairmount,	$1\frac{1}{4}$	Fürth,
700	Germany,	$1\frac{1}{4}$	Galena,	$1\frac{1}{2}$	Ganges,
800	Holland,	$1\frac{1}{2}$	Harrisburgh,	2	Hudson,
900	Ireland,	2	Ithaca,	$2\frac{1}{2}$	Indus,
1,000	Japan,	$2\frac{1}{2}$	Jamestown,	3	Juniata,
2,000	Kentucky,	3	Kensington,	$3\frac{1}{2}$	Kanawha,
3,000	Liberia,	$3\frac{1}{2}$	Lancaster,	4	Lake,
4,000	Maine,	4	Macon,	$4\frac{1}{2}$	Miami,
5,000	Nevada,	$4\frac{1}{2}$	Quincey,	5	Nile,
6,000	Ohio,	5	Newark,	6	Osage.
7,000	Peru,	6	Oneida,		
8,000	Russia,	7	Paris,		
9,000	Spain,	8	Reading,		
10,000	Texas,				

In ordering goods, reference may be made to any illustrated Catalogue, stating name of publisher.

Goods for shipment will be packed carefully, Packages and Cartage charged at cost.

Not responsible for goods lost or damaged "en transit."

All orders will receive prompt and careful attention.

All claims for errors should be made within ten days from date of invoice.

WROUGHT IRON PIPE AND BOILER TUBES.

WROUGHT IRON PIPE.—Plain.

In. diam.....	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	9	10	11	12	13	14	15
Per foot.....	3 1/4	3 1/4	3 3/4	4 1/4	6	8	11	21	26	42	55	67	88	1 00	1 20	1 50	2 00	2 75	3 70	4 75	5 75	6 50	7 75	9 00	10 00
W. per foot.....	.24	.42	.56	.85	1 13	1 67	2 21	2 69	3 66	5 77	7 55	9 45	10 73	12 50	14 56	18 76	21 00	28 00	33 70	40 00	40 00	49 00	54 00	58 00	62 00

WROUGHT IRON PIPE.—Galvanized or Enameled.

Internal diameter.....	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6 in.
Price per foot.....	5 1/2	6	7	10 1/2	4	24	30	47	62	83	1 00	1 25	1 50	2 00

EXTRA STRONG AND DOUBLE EXTRA STRONG WROUGHT IRON PIPE.

Size.....	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Price per ft. EX. STRONG	6 1/2	6 1/2	7 1/2	9 1/2	12	16	22	42	52	84	1 10	1 34	1 66	2 00	2 40	3 00
Pr. per ft. D'ble EX. St.	.....	.....	.....	19	24	32	44	84	1 04	1 68	2 20	2 68	3 32	4 00	4 80	6 00

LAP-WELDED BOILER TUBES.

Not over 18 feet long, and extra price for longer lengths.

External Diameter.....	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/2	5	6	7	8	9	10	11	12
Price per foot.....	23	23	23	22	23	25	28	31	34	38	43	45	52	60	72	1 00	1 45	1 85	2 25	2 75	3 25	3 55
Weight, per foot, lbs..	3/4	1	1 1/4	1 1/2	2	2 1-10	2 3/4	3	3 1/2	4	4 1/2	4 5/8	5 1/2	6	7 1/4	9 1/2	12 1/2	15	16 3/4	21	25	28 3/4

LIGHT ARTESIAN, SALT AND OIL WELL CASING.

Fitted with Screw and Socket or Inserted Joint.

External Diameter.....	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	6	6 3/4	7	8	8 3/4	9	10
Price per foot.....	25	28	31	34	38	43	45	52	56	60	66	72	79	86	1 00	1 30	1 45	1 85	2 10	2 25	2 75
Weight, per foot, lbs....	2 23	2 75	3 00	3 33	3 95	4 27	4 60	5 33	5 50	6 00	6 50	7 25	7 66	8 08	9 35	10 06	12 45	15 10	16 15	17 25	19 00

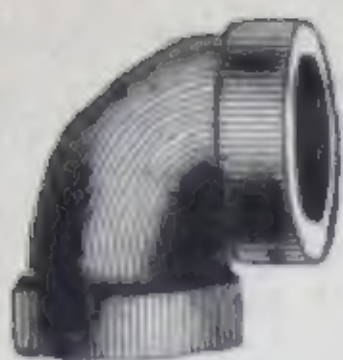
HYDRAULIC TUBING,—any diameter, thickness and length, furnished, price per lb.....

WROUGHT IRON PIPE,—1/8th to 15 inches in diameter, cut to drawings and specifications.

HEAVY CAST IRON PIPE,—flanged or socket, furnished at lowest market rates; special prices upon application.

DRIVE PIPE,—for Artesian Wells, in any lengths, with Patent Couplings.

FITTINGS.



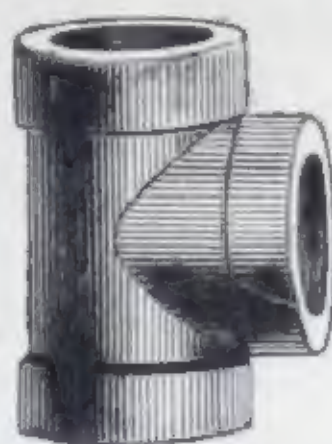
Plain.



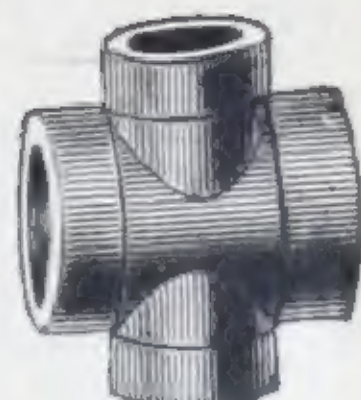
45 degree.



Street.

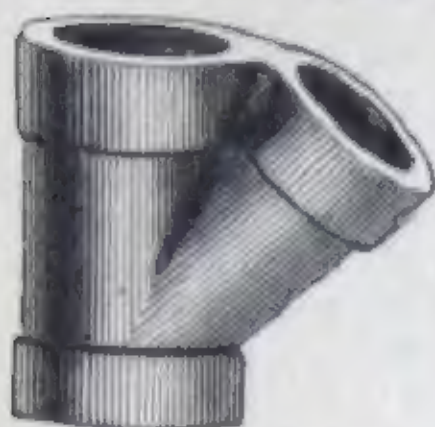


TEE.



CROSS.

ELBOWS.



Y-BRANCH.



OFFSETT.



Close.



Open.

RETURN BENDS.



PLUG.



CAP.



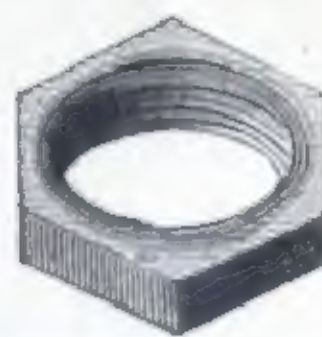
Plain.



Reducing. Right & Left.



COUPLINGS.



LOCKNUT.



BUSHING.

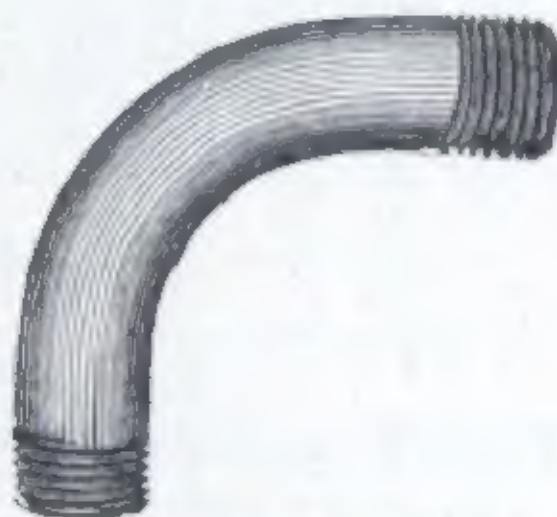


Shoulder.

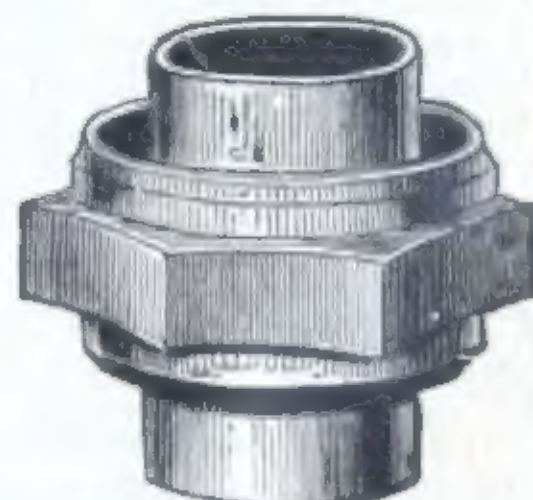


Close.

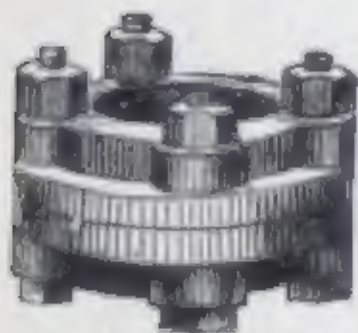
NIPPLES.



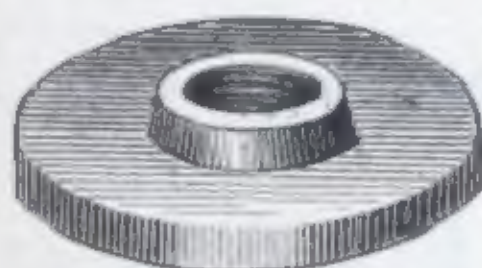
W I BEND.



UNION.



FLANGE UNION.



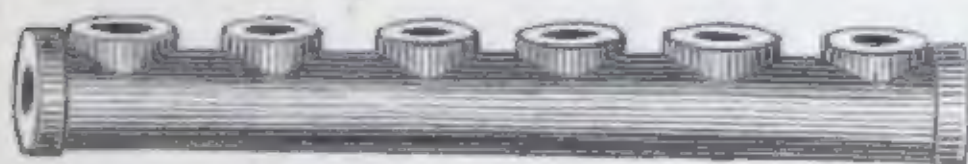
Flat.



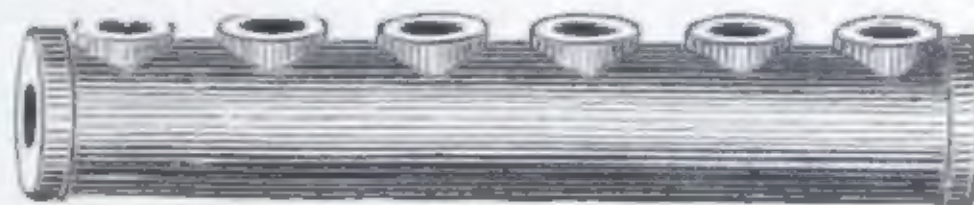
Curved.
FLANGES.



Floor.



Small Run.



Large Run.

BRANCH TEES.



HOOK PLATE.



RING PLATE.



EXPANSION PLATE.



HOOK.



STRAP.



COIL STAND.

Our Fittings are all of Heavy Patterns with Tapering Threads.

GALVANIZED IRON FITTINGS.

FLANGES.

Oval and Curved Flanges, 50 per cent. advance. Blank Flanges, 6 cts. per lb.

FLOOR AND CEILING PLATES.

LONG TURN FITTINGS.

Size	1	1½	1¾	2	2½	3	3½	4	5	6 in.
Elbows	.60	.70	.80	1.10	1.65	2.40	3.00	3.75	4.50	12.00
Tees	.70	.75	.80	1.20	1.80	2.60	3.20	4.00	4.80	15.00
Reducers	.80	1.10	1.50	2.20	3.40	4.60	5.80	7.00	8.20	16.00

MANIFOLDS, Or BRANCH TEES.

Number of Outlets.		2	3	4	5	6	7	8	9	10	12
$\frac{3}{4}$ in. Outlets, 2 in. Center to Center.	1 or $1\frac{1}{4}$ in. run.	50	65	80	95	1 10	1 35	1 50	1 65	1 85	2 50
	$1\frac{1}{2}$ " "	65	85	1 05	1 15	1 30	1 65	2 00	2 50	3 00	
1 in. Outlets, 2 $\frac{1}{2}$ in. Center to Center.	1 or $1\frac{1}{4}$ " "	70	80	95	1 10	1 35	2 05	2 35	2 55	2 85	3 75
	$1\frac{1}{2}$ " "	75	90	1 05	1 20	1 50	2 20	2 50	2 80	3 15	4 00
$1\frac{1}{4}$ in. Outlets, 3 in. Center to Center.	2 " "	1 00	1 20	1 60	1 80	2 00	2 40	2 80	3 30	4 00	4 75
	$1\frac{1}{2}$ " "	2 10	2 50	2 90	3 25	3 60	4 00	4 50	5 00	5 50	6 00
$1\frac{1}{2}$ in. Outlets, 3 $\frac{1}{2}$ in. Center to Center.	2 " "	1 20	1 60	2 00	2 40	2 80	3 20	3 60	4 00	4 40	4 80
	2 " "	1 40	1 85	2 45	2 90	3 40	3 90	4 40	5 00	5 50	6 00
		1 75	2 25	2 75	3 25	3 75	4 25	4 75	5 50	6 00	6 50

Back or Side Outlets charged as additional Front Outlets.
In ordering, be particular to STATE size of RUN required. When not ordered otherwise, all openings will be tapped right hand.

HEADERS OF WROUGHT IRON PIPE,

Any size, length and number of Outlets, made to order, for Dyeing Rooms, Laundries, Ovens, etc.

WALL PLATES, COIL STANDS, ETC.

Number of Pipes		1	2	3	4	5	6	7	8	9	10	11	12
Hook Plates	$\frac{3}{4}$ inch	07	12	16	20	24	28	32	36	43	50	60	70
	1 " "	09	15	21	27	32	40	48	56	65	70	80	1 00
	$1\frac{1}{4}$ " "	10	20	30	40	50	65	75	80	95	1 05	1 15	1 25
	$1\frac{1}{2}$ " "	20	40	60	80	1 00	1 20	1 40	1 60	1 80	2 00	2 20	2 40
Ring Plates	2 " "	30	50	75	1 00	1 25	1 50						
	$\frac{3}{4}$ " "	13	22	30	40	50	60	75	80	95	1 15	1 35	1 50
	1 " "	15	25	35	45	55	65	75	85	1 00	1 20	1 40	1 60
	$1\frac{1}{4}$ " "	16	26	36	46	56	66	76	86	90	1 00	1 10	1 19
Expansion Plates	1 " "	12	20	27	38	45	55	60	70	85	95	1 10	1 20
	$1\frac{1}{4}$ " "	15	30	38	50	65	77	90	1 05	1 20	1 35	1 50	1 65
Coil Stands	$\frac{3}{4}$ " "				50	60	70				1 25		1 50
	1 " "							1 30			1 60		2 05

HOOKS FOR WROUGHT IRON PIPE.

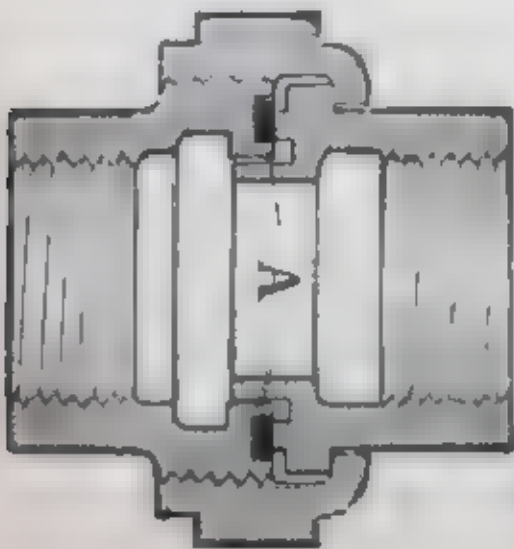
Size	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2 in.
Per 100	60	80	90	1 05	1 40	1 80	2 00

BRASS FITTINGS.—Iron Pipe Sizes.

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3 in.
Elbows	10	12	16	25	35	50	80	1 15	2 00	3 00	4 25
Tees	15	18	24	33	50	75	1 25	1 75	3 00	4 50	6 50
Crosses	20	25	32	50	70	1 00	1 75	2 30	4 00	6 00	8 50
Return Bends, Close				40	60	90	1 30	2 00	3 00	5 00	9 00
Nipples, Short	20	20	25	30	35	45	60	80	1 10	1 65	2 75
Plugs, Caps and Bushings	06	08	10	15	20	30	50	70	90	1 50	2 25
Locknuts	08	08	10	12	15	20	30	45	70	1 00	2 00
Couplings	08	20	15	20	30	35	60	75	1 25	1 75	3 00
Unions	35	45	55	75	1 00	1 40	1 90	2 75	3 75	6 00	8 00

SEAMLESS BRASS OR COPPER TUBES—Iron Pipe Sizes.

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3 in.
Weight per foot	lbs $\frac{1}{4}$	1 7-16	5	8 10	11 14	1 7-10	2 2	2 3 4	3 1 2	4 3 4	5 7 11
Special Price, per lb											



AMERICAN UNIONS, with Metallic Packing.

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3 in.
Plain	each 20	22	25	30	35	48	65	80		
Galvanized	24	28	32	41	50	65	96	1 12		
Tinned	30	33	37	48	60	80	1 15	1 37		

MALLEABLE IRON FITTINGS.

CLASS A.	Price, 25 Cents per Pound.
Elbows	$\frac{1}{2}$, $\frac{3}{4}$ x $\frac{1}{2}$, $\frac{2}{3}$ x $\frac{1}{2}$.
Tees	$\frac{1}{2}$, $\frac{3}{4}$ x $\frac{1}{2}$, $\frac{1}{2}$ x $\frac{1}{2}$, $\frac{2}{3}$ x $\frac{1}{2}$.
Reducing Couplings	$\frac{1}{2}$ x $\frac{1}{2}$, $\frac{3}{4}$ x $\frac{1}{2}$.
Couplings, R. H.	$\frac{1}{2}$.

CLASS B.	Price, 13 Cents per Pound.
Elbows and Tees	$\frac{1}{4}$ inch to $\frac{3}{4}$, inclusive.
Street Elbows	all sizes.
Elbows, Side Outlets	all sizes.
Crosses	all sizes.
Drop Is and Drop Tees	all sizes.
Caps, Plugs and Locknuts	all sizes.
Reducing Couplings	all sizes.
Extension Pieces.	
R. and L. Couplings	all sizes.
R. H. Couplings	$\frac{1}{4}$ to 1 inch.
Waste Nuts. Chandelier Hooks.	
Return Bends	all sizes.

CLASS C.	Price 11 Cents per Pound.
Elbows and Tees	1x $\frac{1}{2}$ and larger.
<small> All fittings in this class, as having a diameter smaller than $\frac{1}{2}$, will be charged in Class B. All fittings in this class, as having a diameter smaller than $\frac{1}{2}$, will be charged in Class B. </small>	
	<div style="display: flex; justify-content: space-around;"> A B C </div> <div style="display: flex; justify-content: space-around;"> 100 to 150 lbs. 200 lbs. 18 cents </div>
<small> All fittings in this class, as having a diameter smaller than $\frac{1}{2}$, will be charged in Class B. All fittings in this class, as having a diameter smaller than $\frac{1}{2}$, will be charged in Class B. </small>	
<small> All fittings in this class, as having a diameter smaller than $\frac{1}{2}$, will be charged in Class B. All fittings in this class, as having a diameter smaller than $\frac{1}{2}$, will be charged in Class B. </small>	

BLAKE'S ADJUSTABLE PIPE HANGER.



	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	7	8	9	10	11	12
Price	15	17	18	18	20	22	25	30	35	40	45	50	55	60	65	70

Made with Clamps for Iron Beams.
 These Hangers can be made any length by means of Wrought Iron Pipe.

MALLEABLE IRON RAILING FITTINGS.



Fig. 30.



Fig. 31.



Fig. 32.



Fig. 33.

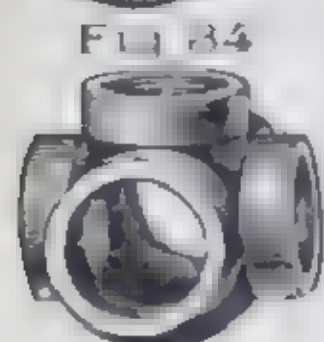


Fig. 34.



Fig. 34 a

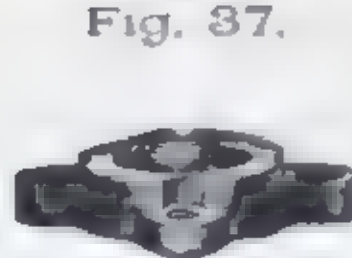


Fig. 37.



Fig. 37 a



Fig. 37 b.

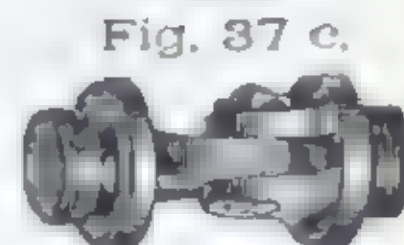


Fig. 37 c.

Foot Rail Bracket
Screw to Floor
or Counter

In ordering these Railing Fittings give NUMBER of our figure, and state whether *right-hand* or *left-hand* threads are wanted. Where Fittings are required having BOTH RIGHT- AND LEFT HAND outlets, please fully describe which outlets are wanted RIGHT HAND and which LEFT-HAND.

Size of Pipe	1	1 1/4	1 1/2	2
Fig. 30. Elb. each.	10	15	20	25
" 31. Elb. side outlet, "	12	18	25	40
" 32. Tee "	12	18	25	40
" 33. Tee side outlet, "	15	22	35	45
" 34. Cross, "	15	22	35	45
" 34a. Cross, side outlet "	18	27	40	50
" 37. Floor Flange, "	2	12	15	20
" 37a. Acorn Ornament, "	10	15	20	25
" 37b. Foot Rail Bracket, "	40	50	70	80
" 37c. Hinge for Pipe Gates "	35	40	45	55

IMPROVED IRON AWNING FRAME FIXTURES.

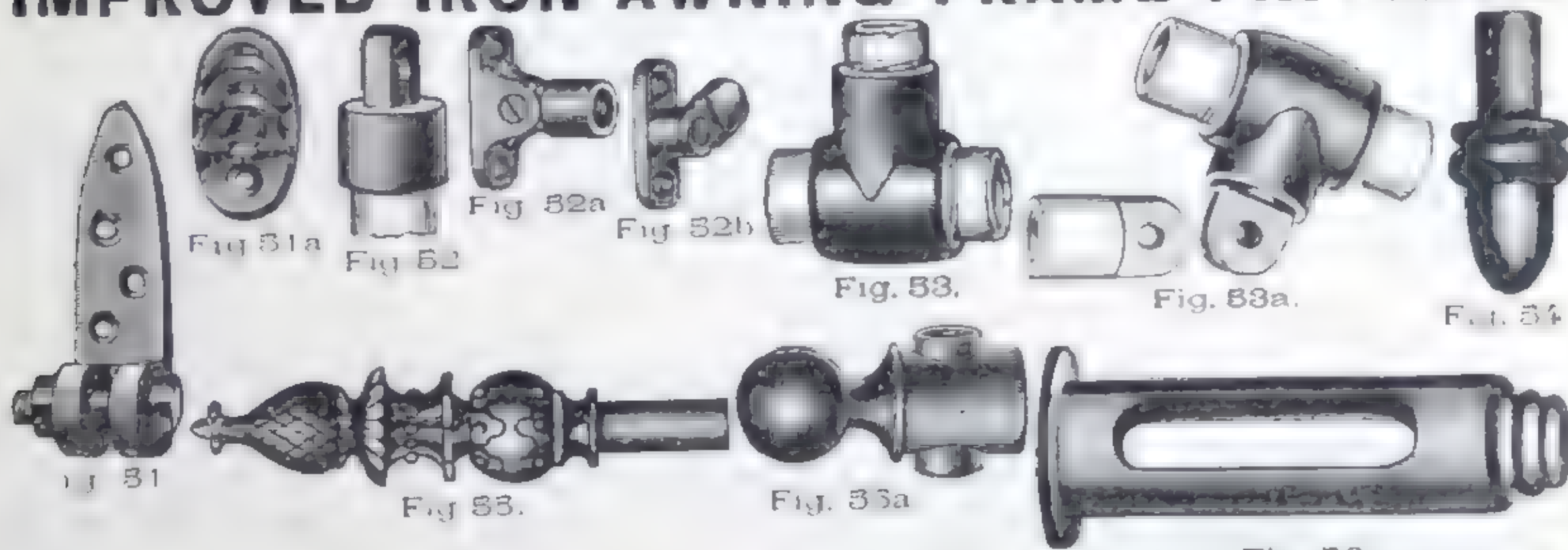


Fig. 31	WALL EYES, (including bolts). One size suits all sizes of Hinge Sockets	0 25
Fig. 31a	HINGE PLATES, " "	0 25
" 32	HINGE SOCKETS, 1/4 inch	0 15
"	" " 1 1/4 "	0 15
"	" " 1 1/2 "	0 20
" 32a	HINGE BRACKET—FRONT. For Window Awning Frames	0 25
"	With Sockets for 1/4, 3/8, 1/2 pipe	
" 32b	HINGE BRACKET—SIDE	0 20
" 33	RAIL TEES, No. 1. For 1 inch Rail tapped for 1/4 inch pipe	0 20
"	" " No. 2. " 1 1/4 " " " 3/4 " "	0 20
"	" " No. 3. " 1 1/4 " " " 1 " "	0 20
"	" " No. 4. " 1 1/2 " " " 1 1/4 " "	0 25
" 33a	BRACE TEE. For 1/4, 1 or 1 1/4 inch pipe	0 20
" 34	RAIL END ACORNS For 1 inch and 1 1/4 inch pipe	0 20
" 35	CAST-IRON AWNING TOPS For 1 1/2 and 2 inch posts	0 50
" 35a	MALLEABLE IRON AWNING TOPS 1 1/2 for 1 inch Rail	0 25
"	" " 2 " 1 1/4 " "	0 25
" 36	CAST-IRON AWNING BASE. For 1 1/2 and 2 inch posts	1 00

Double Galvanized Spiral Riveted Flanged PRESSURE PIPE.

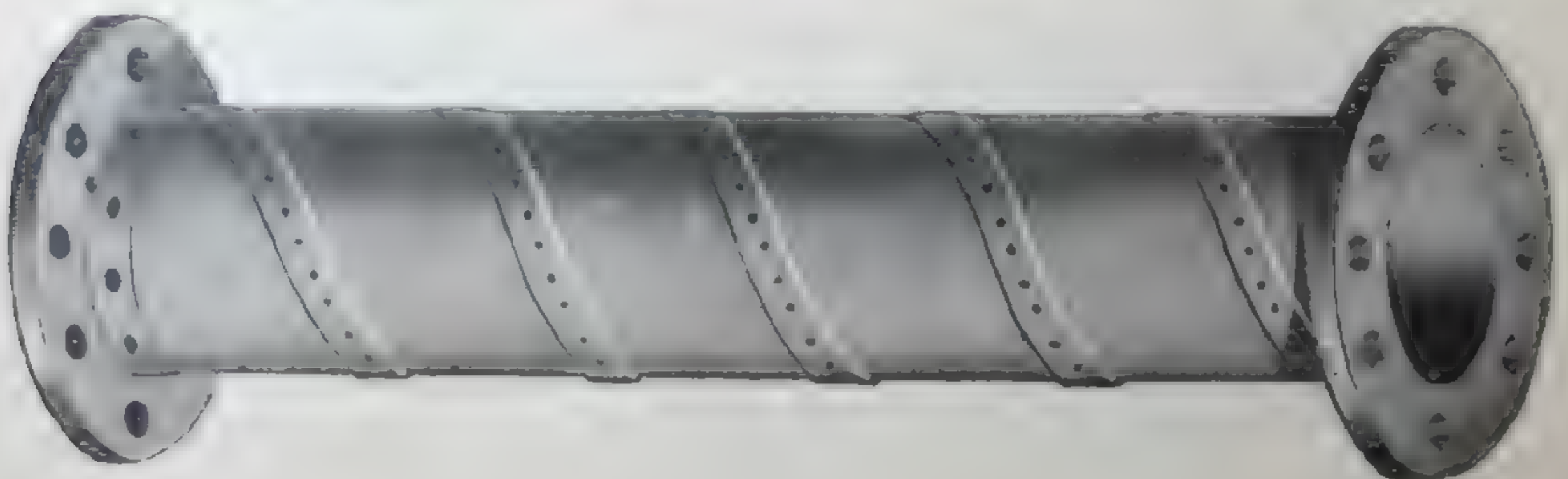
Made of galvanized iron and regalvanized after formation, thereby making all seams and laps perfectly solid.

Each length tested to 150 pounds Hydraulic Pressure, suitable for
**EXHAUST STEAM, EXHAUST-STEAM HEATING, PUMP
SUCTIONS, PUMP COLUMNS, COMPRESSED
AIR, REFRIGERATING PIPE, &c.**

INSIDE DIAMETER IN INCHES.	PRICE PER LINEAL FOOT INCLUDING FLANGES.	THICKNESS BIRMINGHAM GAUGE	NOMINAL WEIGHT PER FOOT.
4	\$0.50	No. 17	2 1/4 lbs.
5	0.70	"	3 " "
6	1.00	"	4 " "
7	1.20	No. 18	5 " "
8	1.40	"	6 " "
9	1.70	"	7 " "
10	2.00	"	8 " "
11	2.60	No. 16	11 " "
12	2.85	"	12 " "
13	3.15	"	14 " "
14	3.60	"	15 " "
15	4.00	No. 14	20 " "
16	4.40	"	22 " "
18	5.15	"	24 " "
20	6.40	"	29 " "
22	7.95	"	31 " "
24	...	....	....
26	...	....	....

In lengths of 20 feet, and less.

Pipe and Fittings gotten out to specifications and drawings, without extra charge, except where lengths required are ALL 5 feet or less, in which case all lengths are charged as being 5 feet.



Galvanized Cast & Wrought Iron Fittings, FOR FLANGED SPIRAL PIPE.

INSIDE DIAMETER.	ELBOWS.	TEES.	CROSSES.	REDUCERS.	FLANGES.	DISKS OR BLIND FLANGES.	BOLTS AND NUTS.	COMPOSITION GASKETS.
3 in.	\$ 1.60	\$ 2.75	\$ 4.15	\$	\$.30	\$.45	\$.04	\$.09
4 "	2.10	3.25	5.30	* 3.00	.52	.65	.04	.10
5 "	2.85	4.40	6.70	* 3.50	.65	.78	.04	.12
6 "	4.10	5.70	8.00	* 4.75	.78	1.17	.04½	.16
7 "	5.10	7.30	11.00	* 5.50	1.04	1.56	.04½	.18
8 "	6.70	9.80	14.25	* 6.50	1.17	1.82	.04½	.23
9 "	9.00	13.80	18.80	* 8.00	1.56	2.34	.04½	.31
10 "	10.00	17.60	24.50	*10.25	1.82	2.47	.04½	.40
11 "	*13.00	*20.00	*26.50	*12.00	1.95	3.25	.04½	.45
12 "	15.80	22.50	30.00	*13.00	2.08	3.90	.04½	.50
13 "	19.15	*25.00	*33.50	*14.60	2.34	4.55	.04½	.56
14 "	*22.30	*30.50	*38.00	*16.50	2.60	5.46	.05	.63
15 "	26.00	*37.00	*45.00	*18.40	3.12	5.98	.05	.75
16 "	*30.00	*44.00	*53.00	*21.30	4.42	6.76	.05	.90
18 "	*34.00	*50.00	*59.00	*26.00	5.07	9.10	.05	1.08
20 "	*38.50	*56.00	*67.00	*29.40	5.59	11.70	.05	1.25
22 "	* . . . . .	* . . . . .	* . . . . .	* . . . . .	. . . . .	. . . . .	. . . . .	. . . . .
24 "	* . . . . .	* . . . . .	* . . . . .	* . . . . .	. . . . .	. . . . .	. . . . .	. . . . .

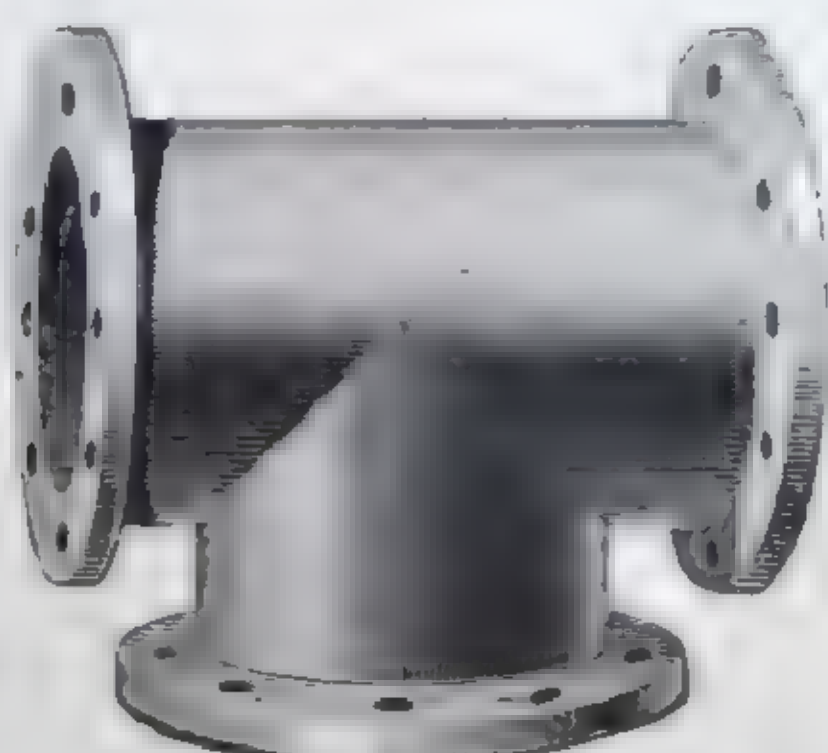
* All fittings marked thus are riveted sheet iron, all others are cast iron.

FITTINGS OF ANY DESIGN MADE TO ORDER.

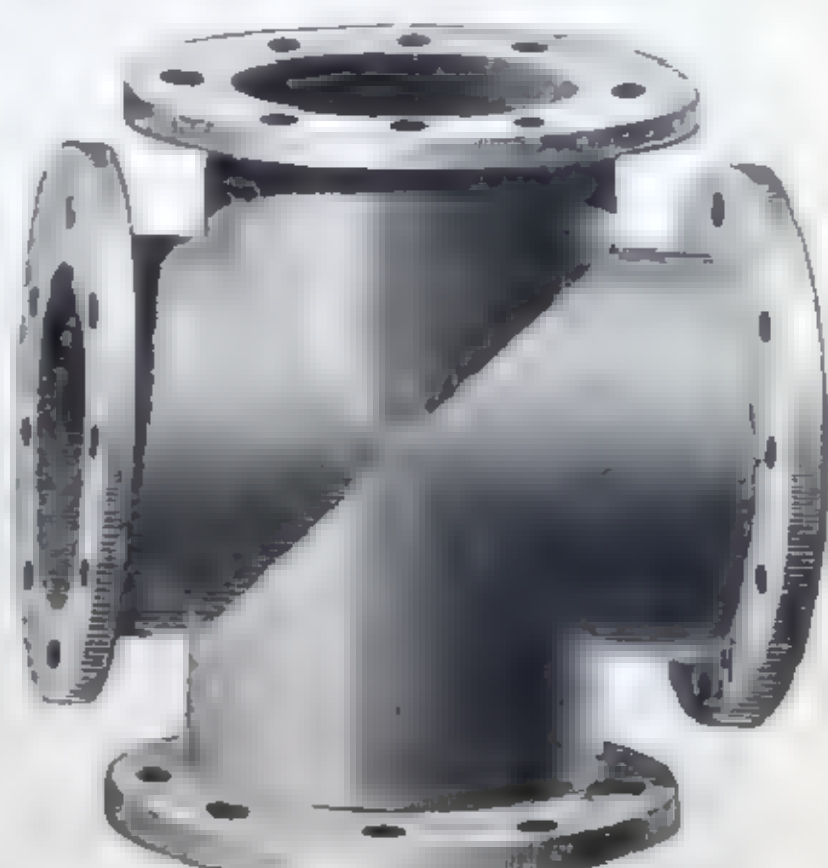
The Disks can be Tapped to Suit Wrought Iron Pipe if Required.



Cast Iron Flanged Elbow.



Cast Iron Flanged Tee.



Cast Iron Flanged Cross.



RECORDS

PATENT SPIRAL SEAM RIVETED PIPE.



SPIRAL RIVETED IRON PIPE.

Internal Diameter		5	6	7	8	9	10	11	12	13	14	15	16	18	20 in
Light Leader Pipe, 12 ft. long.	Galvanized	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
	Black	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
	Galvanized	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
	Black	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
	Galvanized	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
	Black	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60

PATENT ADJUSTABLE ELBOWS.

Price, per dozen.

STIFF ELBOWS.

Price, per dozen.

Size	Charcoal Iron	Planned or American Russia	Genuine Russia	Galvanized Iron	Size	Black Iron, or American Russia	Planned or American Russia	Genuine Russia	Galvanized Iron
1 1/2 inch	1.50	1.50	1.50	1.50	1 1/2 inch	1.50	1.50	1.50	1.50
2	2.00	2.00	2.00	2.00	2	2.00	2.00	2.00	2.00
3	2.50	2.50	2.50	2.50	3	2.50	2.50	2.50	2.50
4	3.00	3.00	3.00	3.00	4	3.00	3.00	3.00	3.00
5	3.50	3.50	3.50	3.50	5	3.50	3.50	3.50	3.50
6	4.00	4.00	4.00	4.00	6	4.00	4.00	4.00	4.00
7	4.50	4.50	4.50	4.50	7	4.50	4.50	4.50	4.50
8	5.00	5.00	5.00	5.00	8	5.00	5.00	5.00	5.00
9	5.50	5.50	5.50	5.50	9	5.50	5.50	5.50	5.50
10	6.00	6.00	6.00	6.00	10	6.00	6.00	6.00	6.00
11	6.50	6.50	6.50	6.50	11	6.50	6.50	6.50	6.50
12	7.00	7.00	7.00	7.00	12	7.00	7.00	7.00	7.00
13	7.50	7.50	7.50	7.50	13	7.50	7.50	7.50	7.50
14	8.00	8.00	8.00	8.00	14	8.00	8.00	8.00	8.00
15	8.50	8.50	8.50	8.50	15	8.50	8.50	8.50	8.50
16	9.00	9.00	9.00	9.00	16	9.00	9.00	9.00	9.00
17	9.50	9.50	9.50	9.50	17	9.50	9.50	9.50	9.50
18	10.00	10.00	10.00	10.00	18	10.00	10.00	10.00	10.00
19	10.50	10.50	10.50	10.50	19	10.50	10.50	10.50	10.50
20	11.00	11.00	11.00	11.00	20	11.00	11.00	11.00	11.00
21	11.50	11.50	11.50	11.50	21	11.50	11.50	11.50	11.50
22	12.00	12.00	12.00	12.00	22	12.00	12.00	12.00	12.00
23	12.50	12.50	12.50	12.50	23	12.50	12.50	12.50	12.50
24	13.00	13.00	13.00	13.00	24	13.00	13.00	13.00	13.00
25	13.50	13.50	13.50	13.50	25	13.50	13.50	13.50	13.50
26	14.00	14.00	14.00	14.00	26	14.00	14.00	14.00	14.00
27	14.50	14.50	14.50	14.50	27	14.50	14.50	14.50	14.50
28	15.00	15.00	15.00	15.00	28	15.00	15.00	15.00	15.00
29	15.50	15.50	15.50	15.50	29	15.50	15.50	15.50	15.50
30	16.00	16.00	16.00	16.00	30	16.00	16.00	16.00	16.00
31	16.50	16.50	16.50	16.50	31	16.50	16.50	16.50	16.50
32	17.00	17.00	17.00	17.00	32	17.00	17.00	17.00	17.00
33	17.50	17.50	17.50	17.50	33	17.50	17.50	17.50	17.50
34	18.00	18.00	18.00	18.00	34	18.00	18.00	18.00	18.00
35	18.50	18.50	18.50	18.50	35	18.50	18.50	18.50	18.50
36	19.00	19.00	19.00	19.00	36	19.00	19.00	19.00	19.00
37	19.50	19.50	19.50	19.50	37	19.50	19.50	19.50	19.50
38	20.00	20.00	20.00	20.00	38	20.00	20.00	20.00	20.00
39	20.50	20.50	20.50	20.50	39	20.50	20.50	20.50	20.50
40	21.00	21.00	21.00	21.00	40	21.00	21.00	21.00	21.00
41	21.50	21.50	21.50	21.50	41	21.50	21.50	21.50	21.50
42	22.00	22.00	22.00	22.00	42	22.00	22.00	22.00	22.00
43	22.50	22.50	22.50	22.50	43	22.50	22.50	22.50	22.50
44	23.00	23.00	23.00	23.00	44	23.00	23.00	23.00	23.00
45	23.50	23.50	23.50	23.50	45	23.50	23.50	23.50	23.50
46	24.00	24.00	24.00	24.00	46	24.00	24.00	24.00	24.00
47	24.50	24.50	24.50	24.50	47	24.50	24.50	24.50	24.50
48	25.00	25.00	25.00	25.00	48	25.00	25.00	25.00	25.00
49	25.50	25.50	25.50	25.50	49	25.50	25.50	25.50	25.50
50	26.00	26.00	26.00	26.00	50	26.00	26.00	26.00	26.00
51	26.50	26.50	26.50	26.50	51	26.50	26.50	26.50	26.50
52	27.00	27.00	27.00	27.00	52	27.00	27.00	27.00	27.00
53	27.50	27.50	27.50	27.50	53	27.50	27.50	27.50	27.50
54	28.00	28.00	28.00	28.00	54	28.00	28.00	28.00	28.00
55	28.50	28.50	28.50	28.50	55	28.50	28.50	28.50	28.50
56	29.00	29.00	29.00	29.00	56	29.00	29.00	29.00	29.00
57	29.50	29.50	29.50	29.50	57	29.50	29.50	29.50	29.50
58	30.00	30.00	30.00	30.00	58	30.00	30.00	30.00	30.00
59	30.50	30.50	30.50	30.50	59	30.50	30.50	30.50	30.50
60	31.00	31.00	31.00	31.00	60	31.00	31.00	31.00	31.00
61	31.50	31.50	31.50	31.50	61	31.50	31.50	31.50	31.50
62	32.00	32.00	32.00	32.00	62	32.00	32.00	32.00	32.00
63	32.50	32.50	32.50	32.50	63	32.50	32.50	32.50	32.50
64	33.00	33.00	33.00	33.00	64	33.00	33.00	33.00	33.00
65	33.50	33.50	33.50	33.50	65	33.50	33.50	33.50	33.50
66	34.00	34.00	34.00	34.00	66	34.00	34.00	34.00	34.00
67	34.50	34.50	34.50	34.50	67	34.50	34.50	34.50	34.50
68	35.00	35.00	35.00	35.00	68	35.00	35.00	35.00	35.00
69	35.50	35.50	35.50	35.50	69	35.50	35.50	35.50	35.50
70	36.00	36.00	36.00	36.00	70	36.00	36.00	36.00	36.00
71	36.50	36.50	36.50	36.50	71	36.50	36.50	36.50	36.50
72	37.00	37.00	37.00	37.00	72	37.00	37.00	37.00	37.00
73	37.50	37.50	37.50	37.50	73	37.50	37.50	37.50	37.50
74	38.00	38.00	38.00	38.00	74	38.00	38.00	38.00	38.00
75	38.50	38.50	38.50	38.50	75	38.50	38.50	38.50	38.50
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78	40.00	40.00	40.00	40.00	78	40.00	40.00	40.00	40.00
79	40.50	40.50	40.50	40.50	79	40.50	40.50	40.50	40.50
80	41.00	41.00	41.00	41.00	80	41.00	41.00	41.00	41.00
81	41.50	41.50	41.50	41.50	81	41.50	41.50	41.50	41.50
82	42.00	42.00	42.00	42.00	82	42.00	42.00	42.00	42.00
83	42.50	42.50	42.50	42.50	83	42.50	42.50	42.50	42.50
84	43.00	43.00	43.00	43.00	84	43.00	43.00	43.00	43.00
85	43.50	43.50	43.50	43.50	85	43.50	43.50	43.50	43.50
86	44.00	44.00	44.00	44.00	86	44.00	44.00	44.00	44.00
87	44.50	44.50	44.50	44.50	87	44.50	44.50	44.50	44.50
88	45.00	45.00	45.00	45.00	88	45.00	45.00	45.00	45.00
89	45.50	45.50	45.50	45.50	89	45.50	45.50	45.50	45.50
90	46.00	46.00	46.00	46.00	90	46.00	46.00	46.00	46.00
91	46.50	46.50	46.50	46.50	91	46.50	46.50	46.50	46.50
92	47.00	47.00	47.00	47.00	92	47.00	47.00	47.00	47.00
93	47.50	47.50	47.50	47.50	93	47.50	47.50	47.50	47.50
94	48.00	48.00	48.00	48.00	94	48.00	48.00	48.00	48.00
95	48.50	48.50	48.50	48.50	95	48.50	48.50	48.50	48.50
96	49.00	49.00	49.00	49.00	96	49.00	49.00	49.00	49.00
97	49.50	49.50	49.50	49.50	97	49.50	49.50	49.50	49.50
98	50.00	50.00	50.00	50.00	98	50.00	50.00	50.00	50.00
99	50.50	50.50	50.50	50.50	99	50.50	50.50	50.50	50.50
100	51.00	51.00	51.00	51.00	100	51.00	51.00	51.00	51.00
101	51.50	51.50	51.50	51.50	101	51.50	51.50	51.50	51.50
102	52.00	52.00	52.00	52.00	102	52.00	52.00	52.00	52.00
103	52.50	52.50	52.50	52.50	103	52.50	52.50	52.50	52.50
104	53.00	53.00	53.00	53.00	104	53.00	53.00	53.00	53.00
105	53.50	53.50	53.50	53.50	105	53.50	53.50	53.50	53.50
106	54.00	54.00	54.00	54.00	106	54.00	54.00	54.00	54.00
107	54.50	54.50	54.50	54.50	107	54.50	54.50	54.50	54.50
108	55.00	55.00	55.00	55.00	108	55.00	55.00	55.00	55.00
109	55.50	55.50	55.50	55.50	109	55.50	55.50	55.50	55.50
110	56.00	56.00	56.00	56.00	110	56.00	56.00	56.00	56.00
111	56.50	56.50	56.50	56.50	111	56.50	56.50	56.50	56.50
112	57.00	57.00	57.00	57.00	112	57.00	57.00	57.00	57.00

IMPROVED EXHAUST CONDENSER.

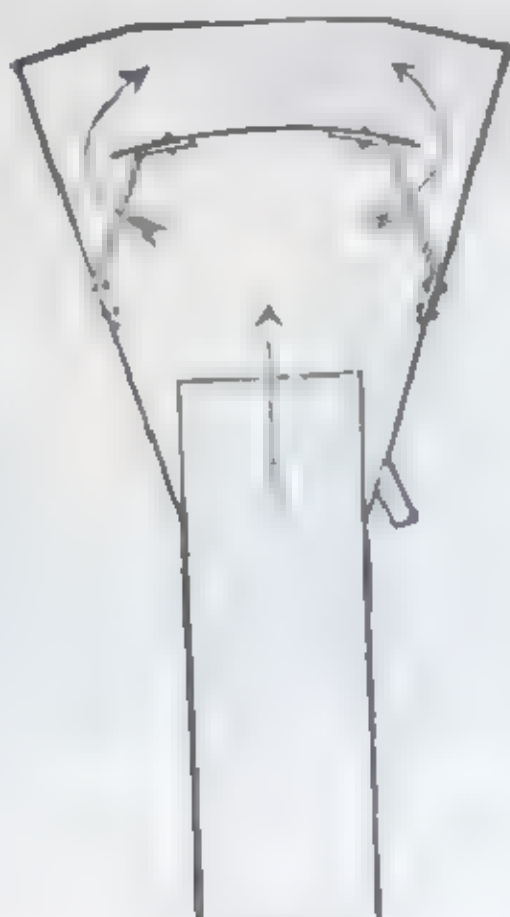


Fig 2

This cut presents a sectional view, showing the construction of a very valuable device to apply to the upper end of all exhaust pipes leading from Engines or Pumps. By the use of these condensers, damage to roofs and annoyance to passers by is prevented, and the product of condensation can be returned to the hot well in boiler-room.

SPECIAL SIZES MADE TO ORDER.

Size of Pipe, ...	2	2 1/2	3	3 1/2	4	5	6	8	10 in.
Price,	7 00	7 50	8 00	9 00	11 00	13 00	16 00	20 00	24 00

GALVANIZED WIRE STRAINERS AND HOOKS.

Size	2	2 1/2	3	3 1/2	4	5	6	7	8	9	10 in.
Strainers, . . . per doz.	2 50		3 00		3 50	4 00	4 50		10 50		15 00
Hooks, each	04 1/2	05	06	07	08	12	15	19	24	30	39

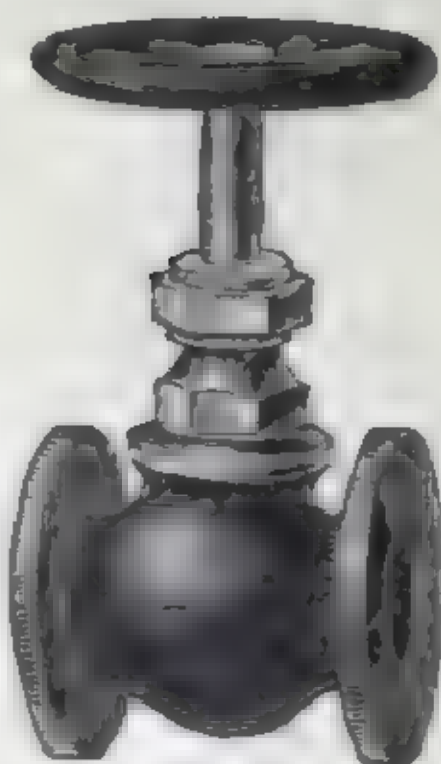
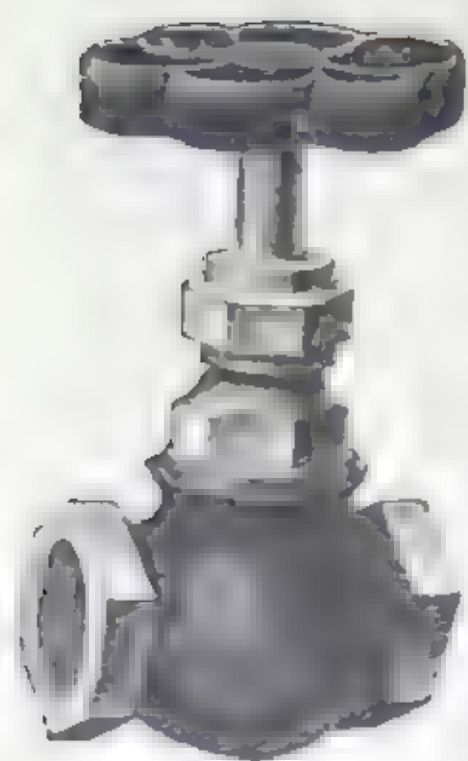
THE JENKINS SAFETY VALVE.



The Disc used in these Valves will stand 200 pounds steam pressure, and will last for years.

Brass.							Iron Body.								
Size.	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	Size....	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{4}$	3	3 $\frac{1}{2}$	4
Price,	3 75	4 50	5 00	7 50	9 25	14 00	Screwed	4 50	6 25	7 25	10 25	16 75	22 00	39 00	38 00
							Flanged				12 25	19 00	25 50	34 00	41 50

BRASS VALVES.



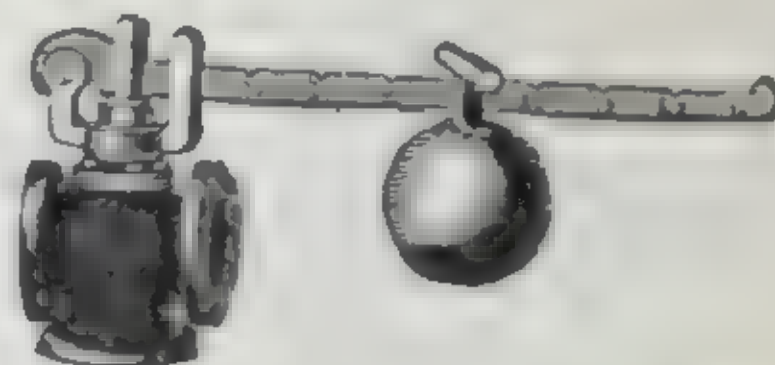
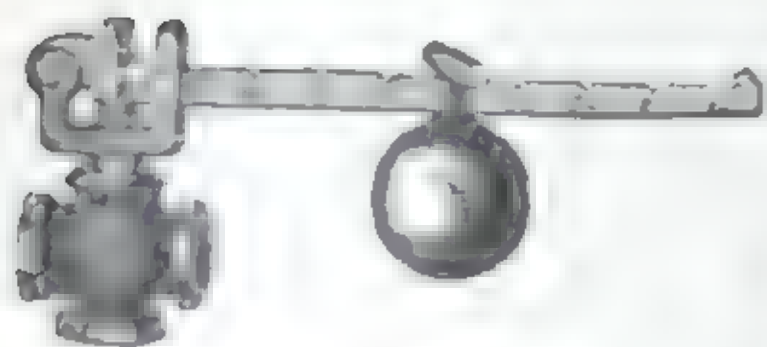
Globe Valve

Angle Valve.

Flanged Valve

Check Valve.

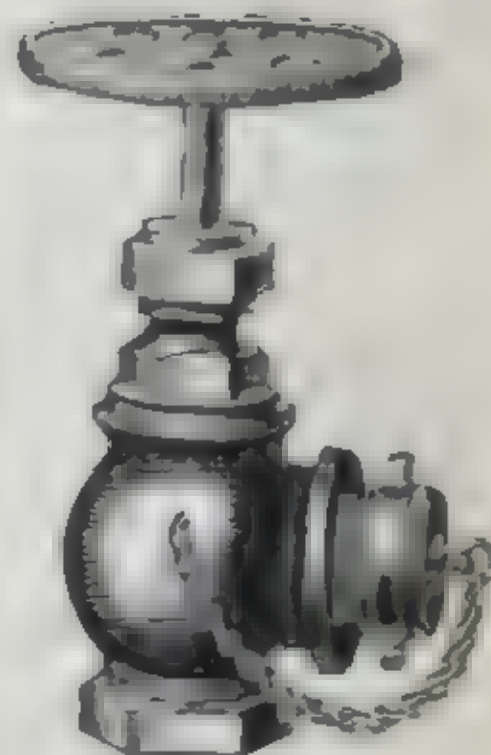
Flanged Check Valve



Safety Valves

Angle Safety Valves.

Flanged Safety Valves



Cross Valve

Flanged Cross Valve

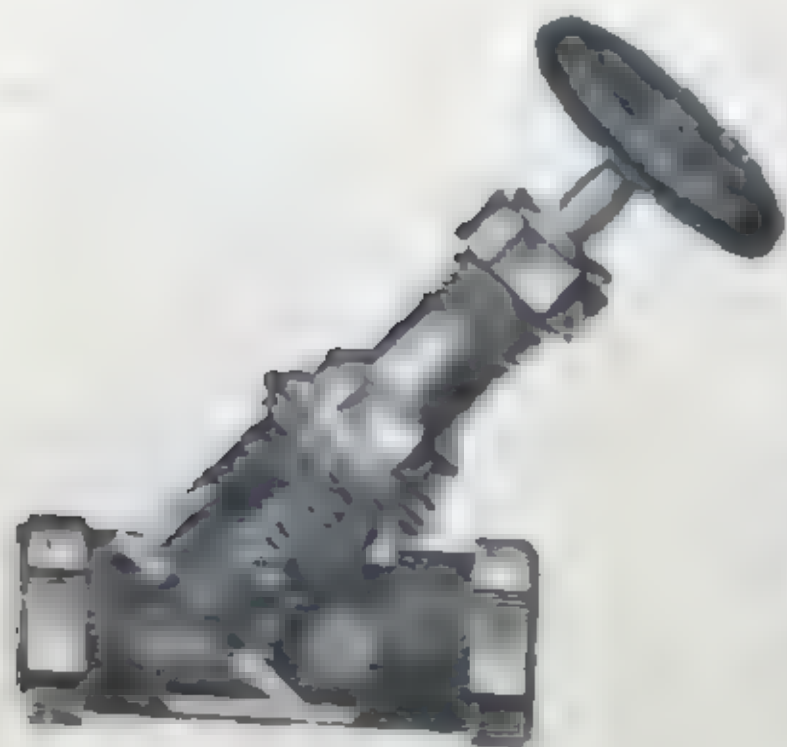
Pump Valve

Throttle Valve

Hose Valve.

Y VALVES.

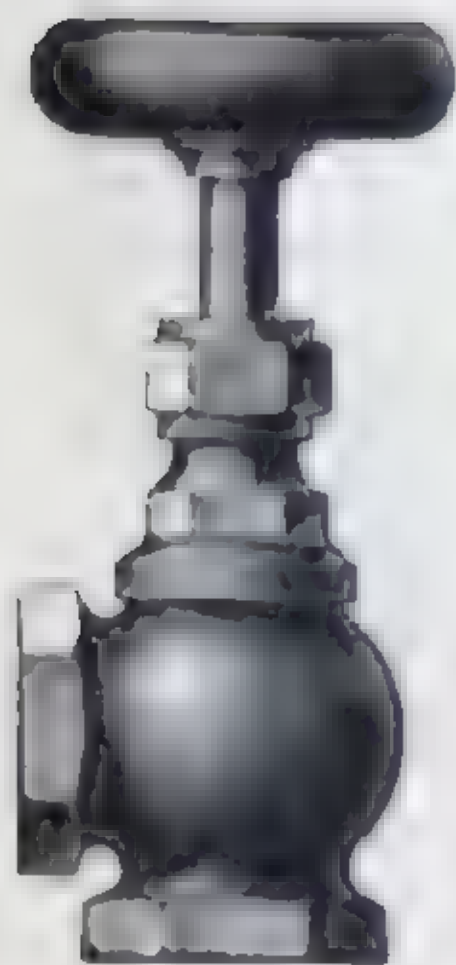
with Jenkins' Patent Seat.



	1	1	1	2	2	3	3	4	5	6							
Plaza	\$ 84	7	(m)	8	(m)	9	50	14	(m)	25	(m)						
Fruit						13	(m)	14	(m)	21	30	24	(m)	42	(m)	50	60
Plantain						15	(m)	20	5	24	6	27	50	42	50	52	50

Size	1½	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42
Globe and Angle Valves	60	60	75	1 00	1 35	1 80	2 80	3 90	5 50	11 75	16 00	20 00	40 00	50		
" " " Heavy	80	80	95	1 25	1 80	2 50	3 75	5 25	7 25	14 00	19 00					
" " " Flanged					5 00	7 00	9 00	14 00	20 00	30 00	45 00	65 00	90			
Check Valves	50	50	60	85	1 15	1 55	2 35	3 25	5 20	10 00	14 00					
" " Heavy	65	65	70	1 00	1 50	1 85	3 25	4 50	6 50	12 50	17 00					
" " Flanged				3 25	3 75	4 50	6 50	8 50	13 00	19 00	28 00	42 00	60 00			
" " Vertical				85	1 15	1 55	2 35	3 25	5 20	10 00	14 00					
Safety			2 25	2 80	3 80	5 50	7 00	11 00								
Cross			1 50	2 00	2 50	3 50	5 00	8 00	13 00	24 00						
Pump			2 00	3 00	4 00	6 00	9 00									
" " with Air Chamber			2 50	4 00	5 25	7 25	10 50									
" " " and Cock			3 00	4 50	5 75	7 75	11 25									
Suction Baskets					1 50	1 50	2 00	3 50	5 00	7 50	11 50	15 00				
Foot Valves and Strainer					1 50	2 00	2 75	3 75	5 50	2 00	35 00					
Throttle Valves					7 50	9 00	11 00	13 00	20 00	30 00						
Hose Valves					5 00	7 00	9 00	14 00	20 00	30 00						

Special Prices.



RADIATOR VALVES Wood Wheel or T Handle.

Size		1	2	3	4	5
Rough Beech	Plan.	1 1/2	1 1/2	2 1/2	3 1/2	4 1/2
" "	Plated (Painting)	1 1/2	1 1/2	2 1/2	3 1/2	4 1/2
" "	Plated in cover	1 1/2	1 1/2	2 1/2	3 1/2	4 1/2
Finished "	Plan.	1 1/2	1 1/2	2 1/2	3 1/2	4 1/2
" "	Plated in cover	2 1/2	2 1/2	3 1/2	4 1/2	5 1/2

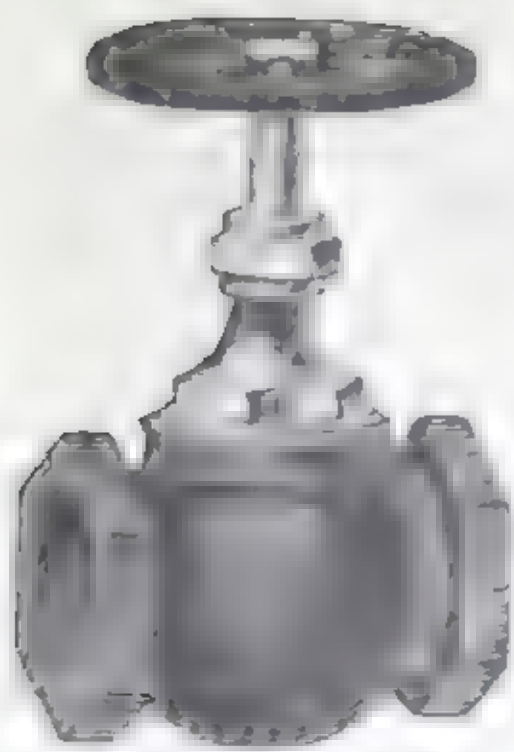
RADIATOR VALVES—With Ground Coupling

Size		1/2	3/4	1	1 1/4	1 1/2
Rough Body, Plain		2 05	2 45	3 25	4 00	5 00
" " Plated Finishes		2 40	2 85	3 65	4 40	5 40
Finished " Plain		2 55	3 00	3 85	4 60	5 60
" " Plated Finishes		2 90	3 30	4 20	5 00	6 00

JENKINS' RADIATOR VALVES.

Size		1	2	3	4	5	6	7	8	9	10	11	12
W	W	Rough Body, Finished Trimmings	2 00	2 50	3 25	4 50	6 25	8 00	9 75	11 50	13 25	15 00	16 75
		Finished all over	2 50	3 00	3 75	5 00	6 75	8 50	10 25	12 00	13 75	15 50	17 25
		Rough Body, Plated Trimmings	2 25	2 75	3 50	4 75	6 50	8 25	10 00	11 75	13 50	15 25	17 00
		" " " " all over	2 50	3 00	3 75	5 00	6 75	8 50	10 25	12 00	13 75	15 50	17 25
		Finished and Plated all over	2 55	3 10	3 85	5 10	6 85	8 60	10 35	12 10	13 85	15 60	17 35
		Rough Body, Finished Trimmings	2 25	2 75	3 50	4 75	6 50	8 25	10 00	11 75	13 50	15 25	17 00
		Finished all over	3 20	4 00	4 80	6 40	8 40	10 40	12 40	14 40	16 40	18 40	20 40
		Rough Body, Plated Trimmings	2 00	2 50	3 25	4 50	6 25	8 00	9 75	11 50	13 25	15 00	16 75
		" " " " all over	2 20	2 80	3 60	4 80	6 40	8 40	10 40	12 40	14 40	16 40	18 40
		Finished and Plated all over	2 25	2 85	3 65	4 85	6 45	8 45	10 45	12 45	14 45	16 45	18 45
		Corner Valves, Finished Trimmings	2 25	2 75	3 50	4 75	6 50	8 25	10 00	11 75	13 50	15 25	17 00
		" " Plated	2 75	3 25	4 00	5 25	7 00	8 75	10 50	12 25	14 00	15 75	17 50

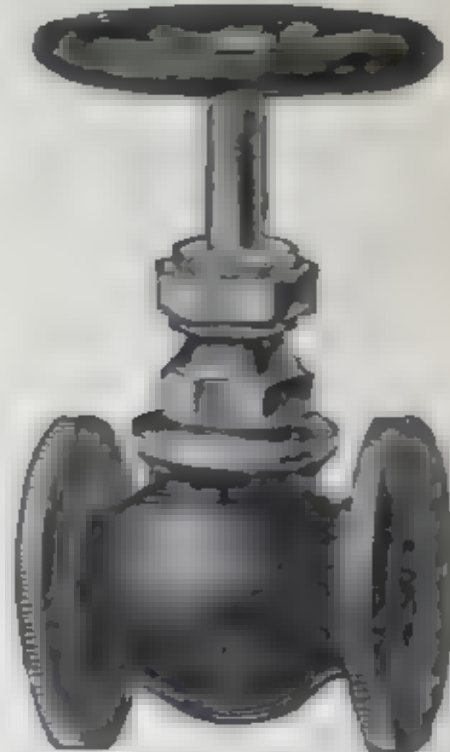
IRON BODY VALVES.



Globe Valve.



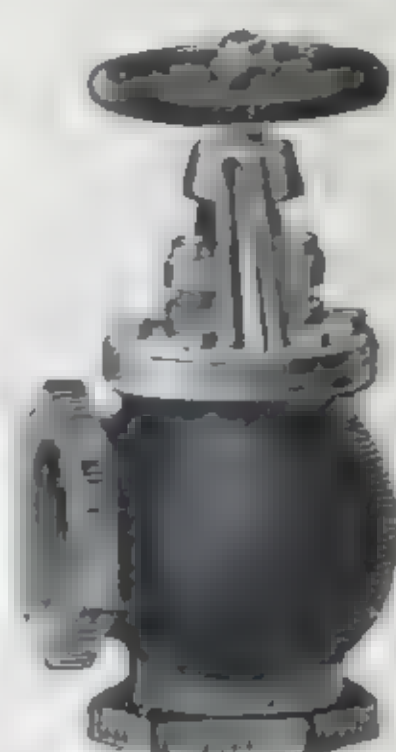
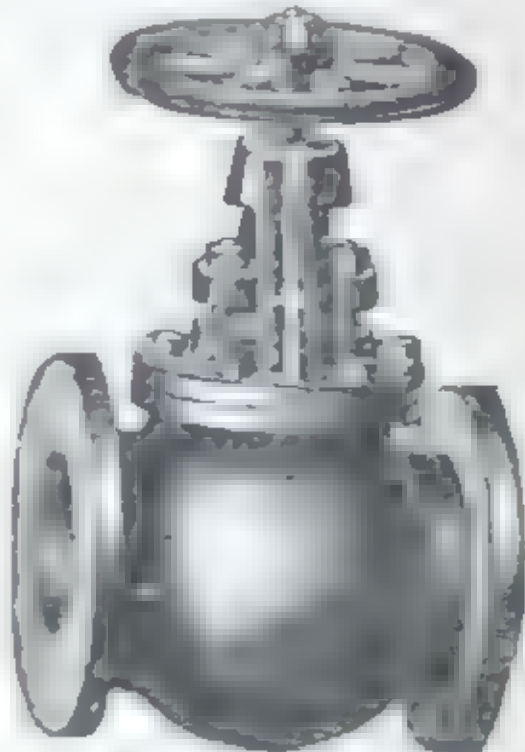
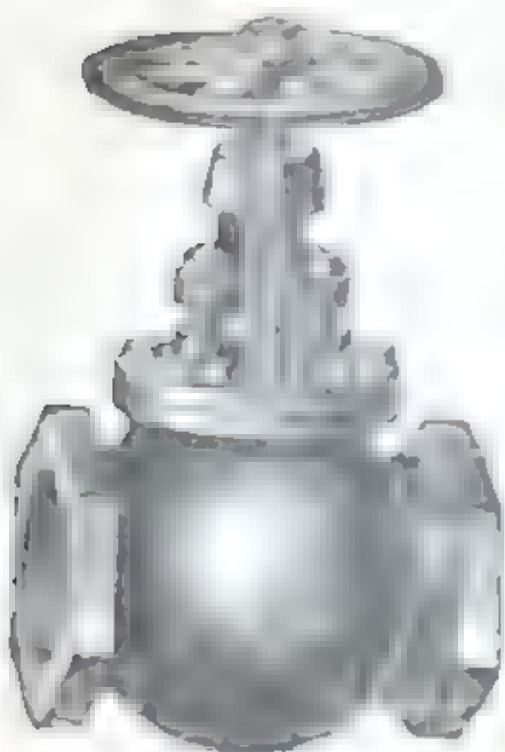
Angle Valve.



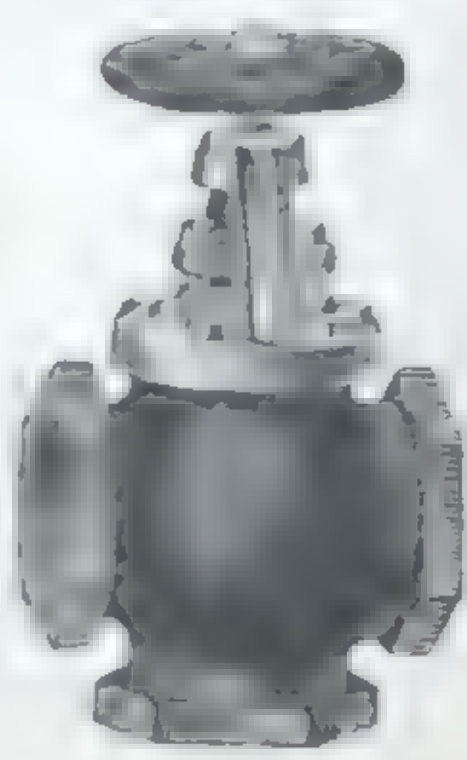
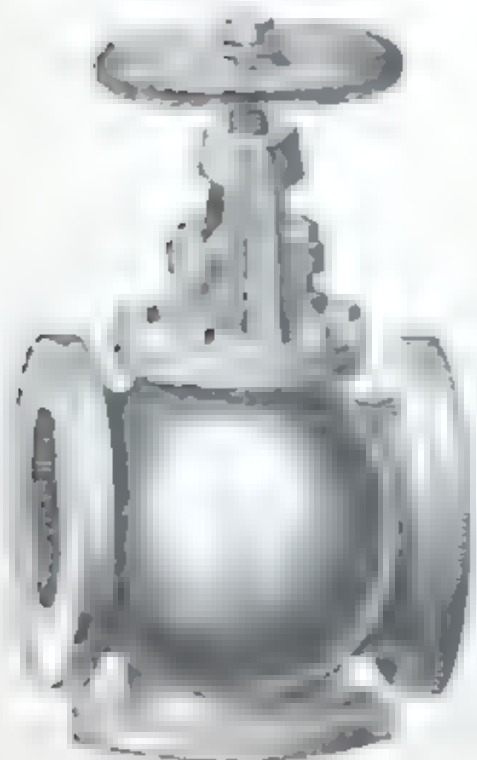
Flanged Valve.



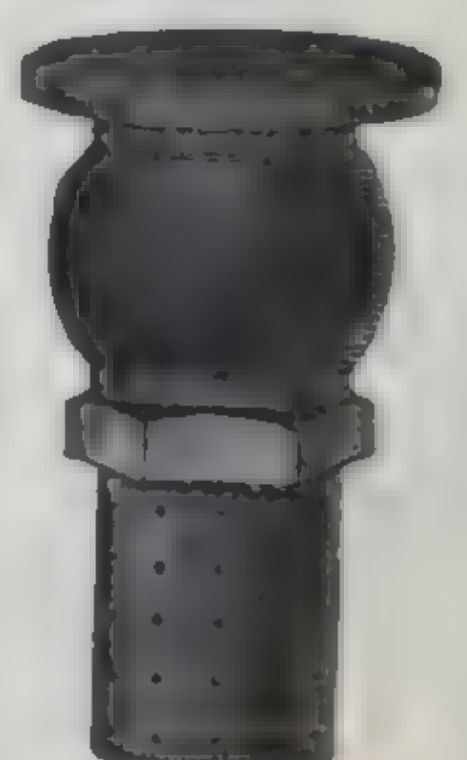
Cross Valve.



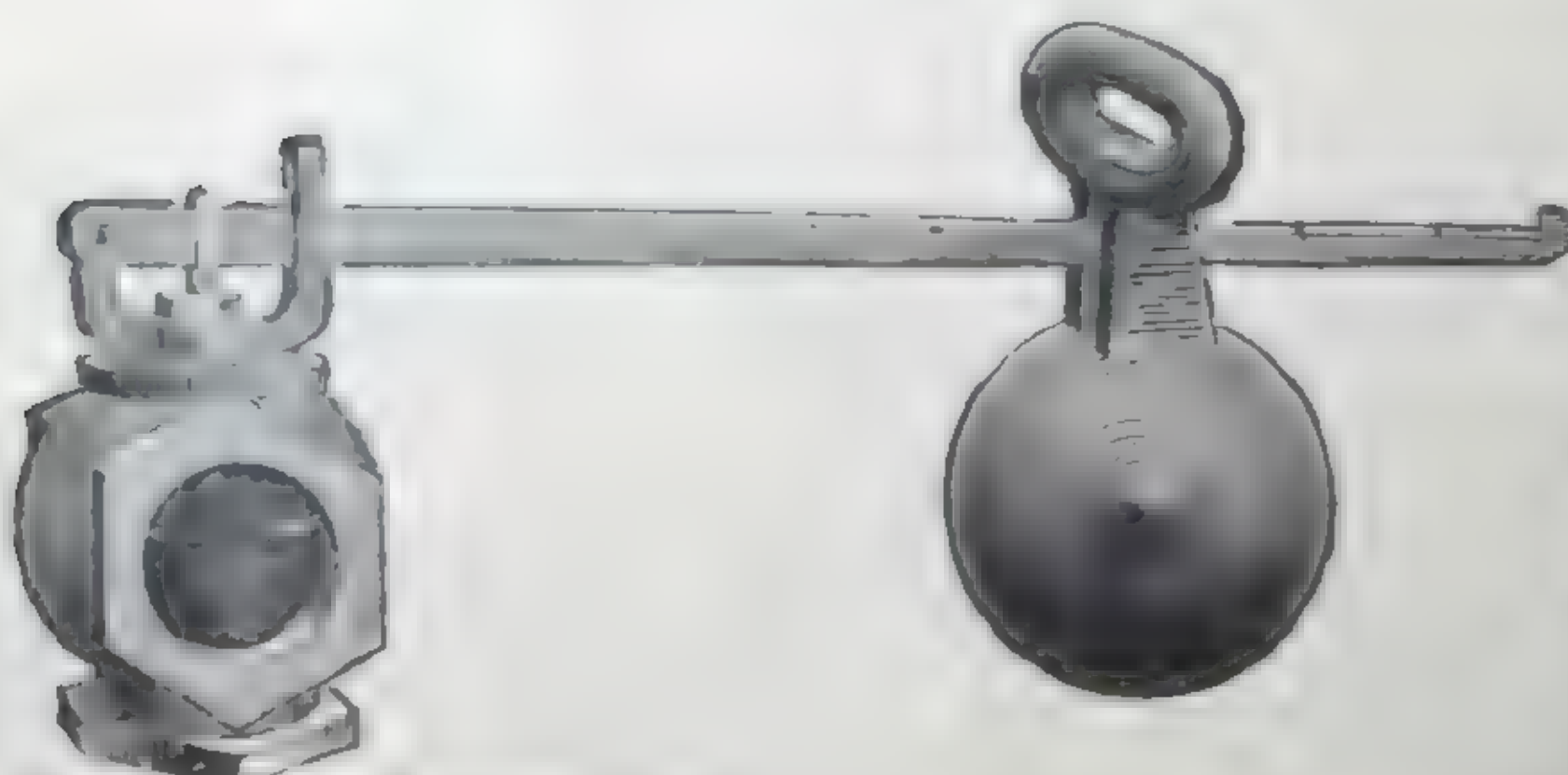
VALVES WITH YOKE



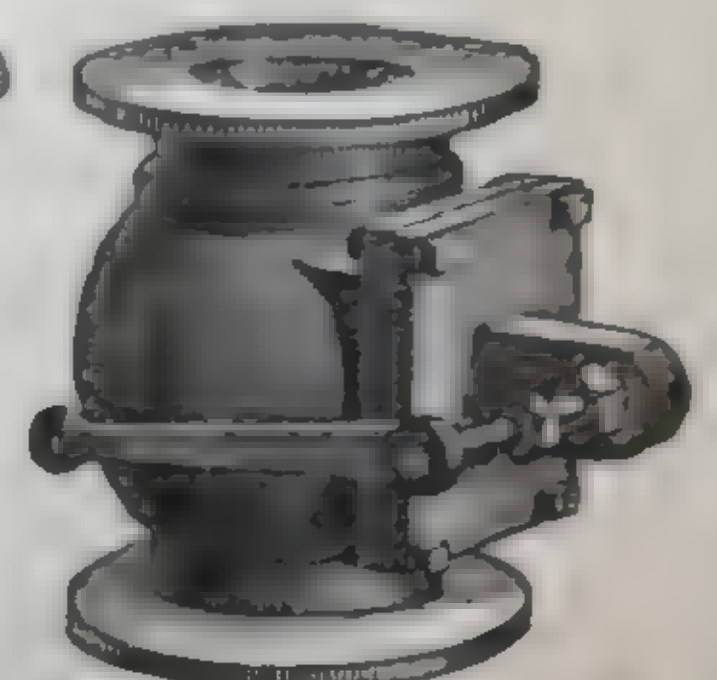
Throttle Valve.



Foot Valve,
Screwed or Flanged.



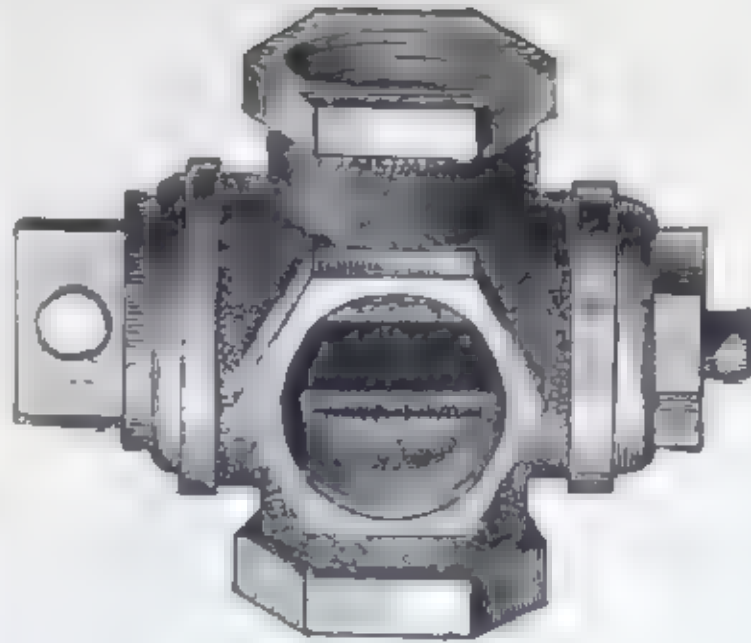
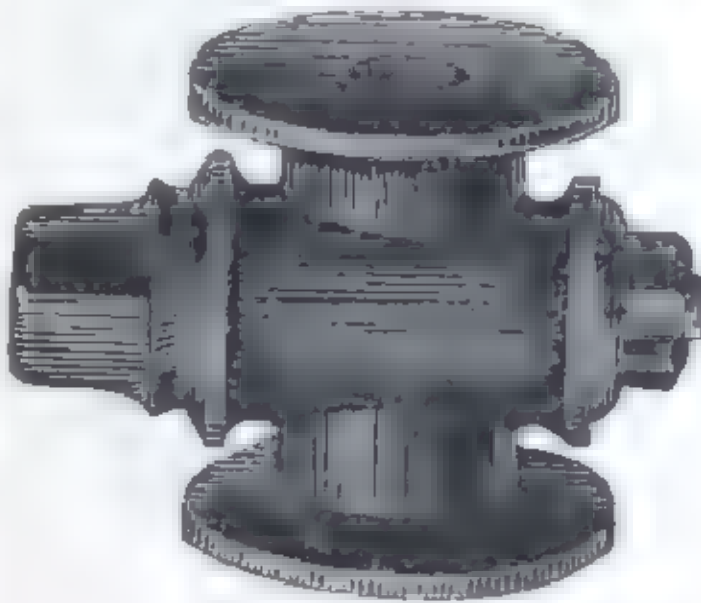
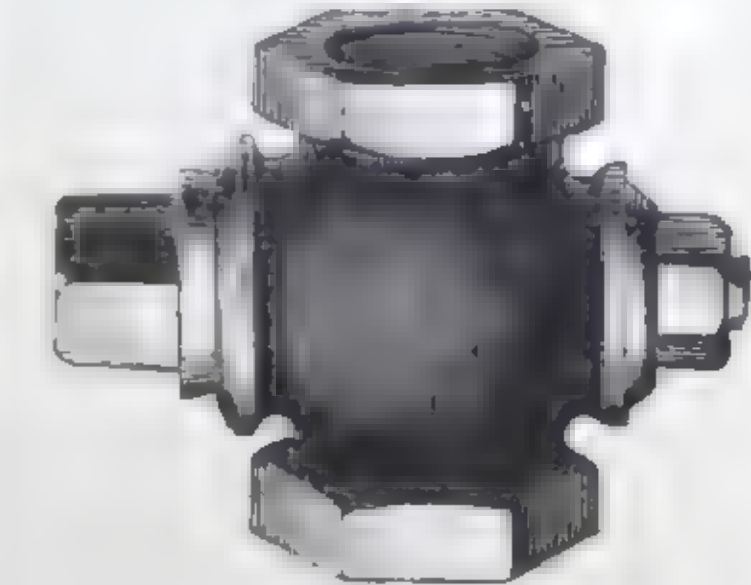
Safety Valve, Screwed or Flanged.



Back Pressure Valve, Screwed or Flanged.

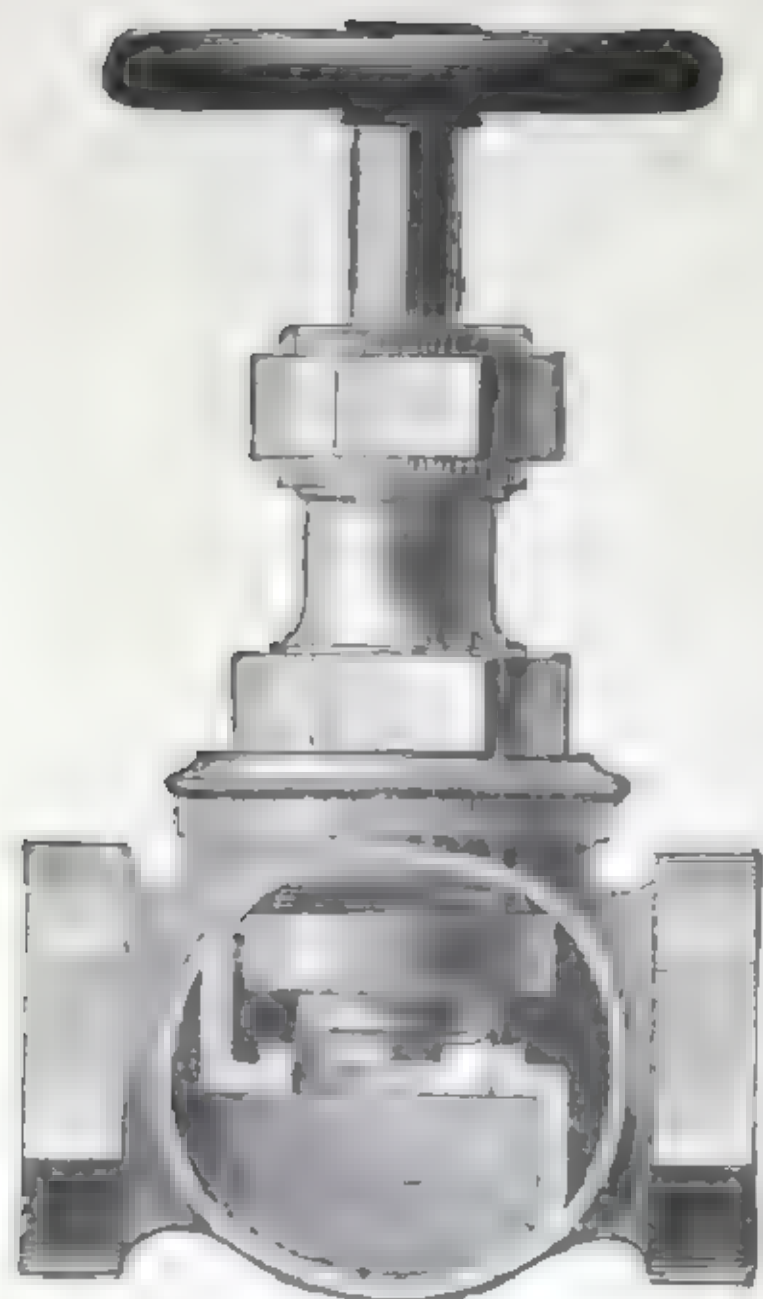
IRON VALVES.—Brass Mounted.

Size	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	10	12 in.
Globe and Angle Valves, Screwed															
" " " Flanged	2 00	2 50	3 50	5 00	7 50	10 50	14 00	21 00	28 00	32 00	44 00	75 00	85 00	135 00	200 00
" " " Screwed, (Yoked)	3 00	3 75	5 00	6 75	9 50	13 50	21 50	25 00	32 00	36 00	49 00	80 00	91 00	145 00	220 00
Check Valves, Screwed															
" " " Flanged	1 50	2 25	2 75	3 75	6 25	9 75	12 75	15 00	20 00	24 00	33 00	55 00	65 00	110 00	170 00
Safety Valves, Screwed	2 50	3 50	4 25	5 50	8 25	12 50	16 25	18 00	24 00	28 00	38 00	60 00	71 00	120 00	190 00
" " " Flanged	3 50	5 00	6 00	8 00	13 00	18 00	24 00	30 00	36 00	44 00	60 00	90 00	105 00	175 00	270 00
Cross Valves, Screwed	5 00	6 75	8 25	10 50	16 00	22 50	29 25	36 00	42 00	50 00	67 00	90 00	105 00	175 00	270 00
" " " Flanged															
Back Pressure Valves, Screwed															
" " " Flanged															
Throttle Valves, Screwed	8 00	10 00	12 00	18 00	24 00	32 00	40 00	48 00	55 00	65 00	80 00	95 00	110 00	190 00	290 00
Foot Valves, Screwed	1 50	1 75	2 50	3 25	4 25	5 50	7 50	10 00	13 00	16 00	21 00	25 00	32 00	45 00	70 00
Suction Baskets, Screwed	.40	.50	.75	1 00	1 50	2 00	3 00	3 75	4 50	5 00	6 50	8 00	91 00	135 00	200 00
" " Galvanized	.50	.75	1 00	1 50	2 00	3 00	4 50	6 00	7 50	8 00	10 00	12 00	145 00	220 00	350 00

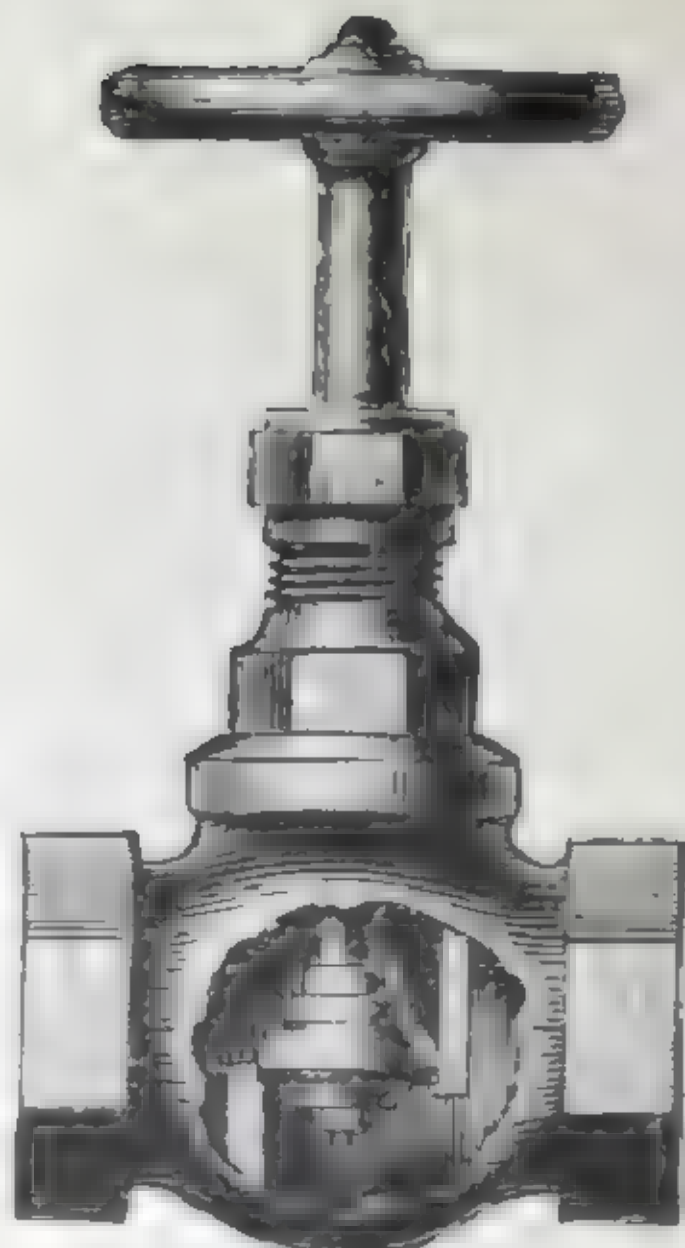


IRON COCKS.

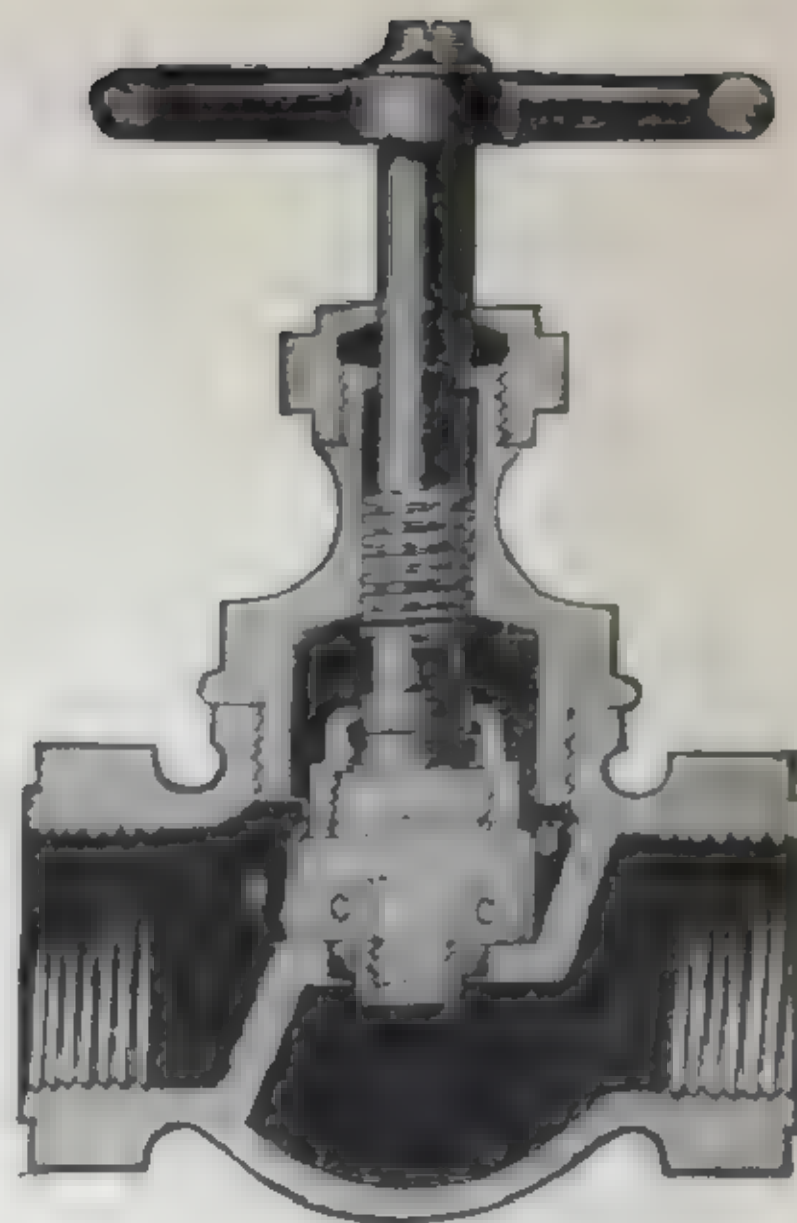
Size	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6 in.
All Iron	75	80	90	1 25	1 50	2 00	2 60	4 50	6 50	12 00	16 00	33 00	45 00
" " Brass Washers		90	1 00	1 40	1 75	2 25	3 00	5 00	7 50	14 00	19 50	39 00	53 00
With Brass Plugs	1 00	1 20	1 60	2 00	2 75	4 00	5 00	9 50	13 50	30 00	40 00	80 00	110 00
Flanged Ends, all Iron													
" " with Brass Plugs													
Three way, all Iron													
" " with Brass Plugs													
" " Flanged, all Iron													
" " with Brass Plugs													



JENKINS VALVE.



FRINK VALVE.



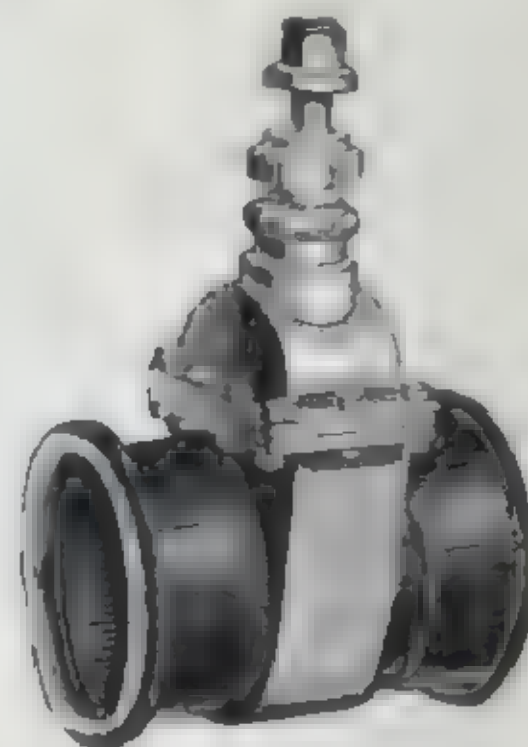
RUSSELL VALVE.



Flanged

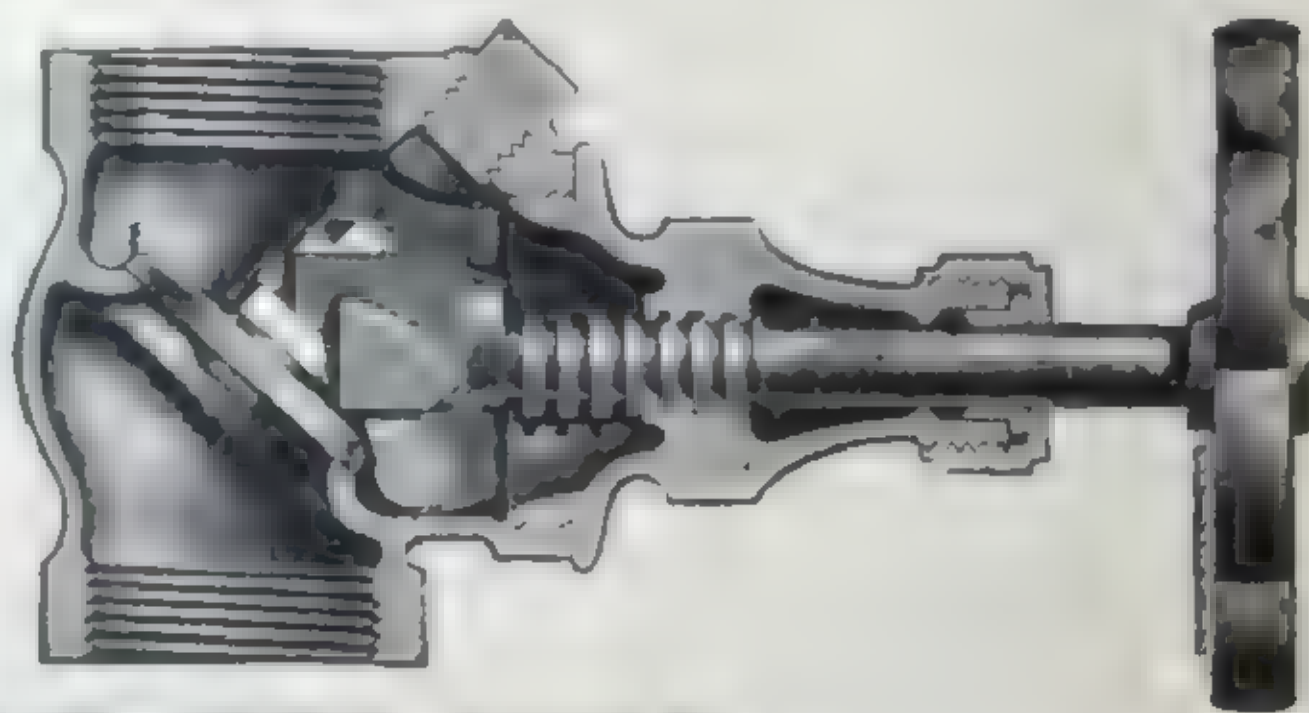
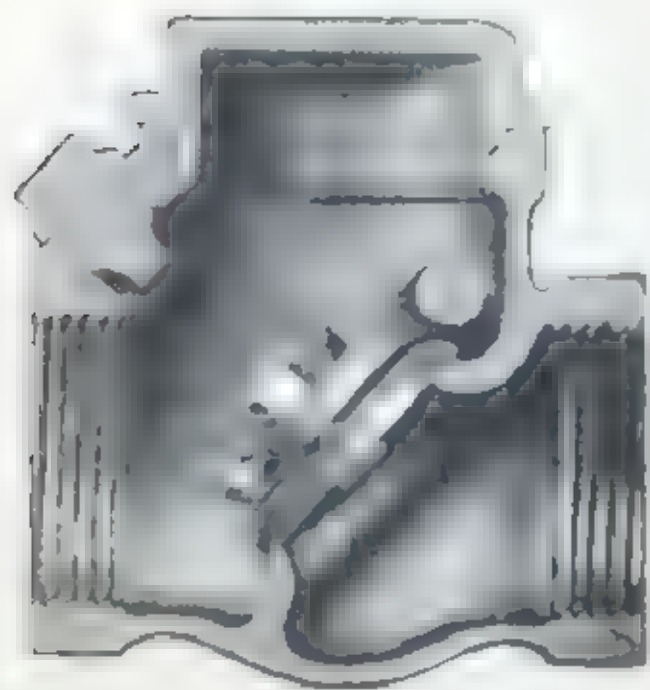


Screwed



Hub Ends

GATE VALVES.



SWING, GATE OR CHECK VALVES.

SIZE			$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3 in.			
Brass Valves, Screwed			1 15	1 30	1 75	2 15	3 25	4 25	6 25	11 50	16 00			
SIZE			1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	10
Iron Body														
Brass Mounted														
Screwed Ends			3 25	4 25	6 25	10 00	12 00	16 00	18 00	25 00	32 00	41 00	50 00	65 00
Flanged Ends														
Iron or Steel Ends														

SWING CHECK VALVE, with Jenkins' Seat.

SIZE	1/8	1/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6 in.
Brass	1 30	1 75	2 50	3 50	4 75	7 50	13 25	20 00				
Iron Body, Screwed							10 00	13 00	16 00	18 00	28 00	38 00
" " Flanged							11 75	15 00	18 00	20 00	30 00	40 00

PATENT SEAT VALVES.

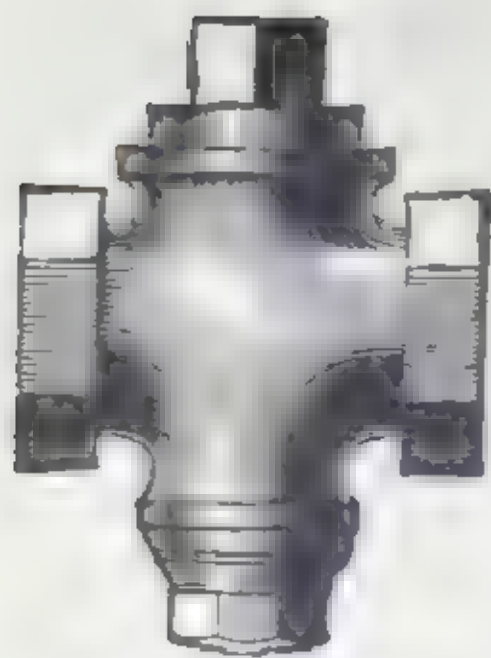
Size	1/4	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6 in.
Jenkins' Globe and Angle	1 10	1 25	1 60	2 20	2 80	4 00	8 00	15 75	22 00				
Check	1 10	1 20	1 50	1 90	2 60	3 60	7 50	13 50	20 50				
Frink's Globe and Angle	80	1 00	1 25	1 75	2 50	3 35	7 00	14 00	20 00				
Russell's	1 70	1 70	2 00	2 30	3 00	4 30	8 75	16 00	24 00				
Check		1 50		2 00	2 60	3 50	7 00	13 50	16 00	19 50	24 00	40 00	48 00
Jenkins' Globe and Angle							7 25	11 00	18 00	21 50	26 00	42 00	50 00
Flanged							8 50	13 00	18 00	21 50	26 00	42 00	50 00
Frink's					2 40	3 30	6 00	10 00	13 00	18 50	22 00	34 00	45 00
Frink's							7 40	11 50	14 50	20 00	24 00	36 00	56 00
Russell's							4 25	12 00	17 00	20 00	36 00	40 00	53 00
Flanged							5 00	13 00	18 00	22 00	28 00	44 00	56 00
Extra Discs	4	5	6	7	8	12	24	32	40	50	60	80	1 00

GATE OR OPEN WAY VALVES.—BRASS.

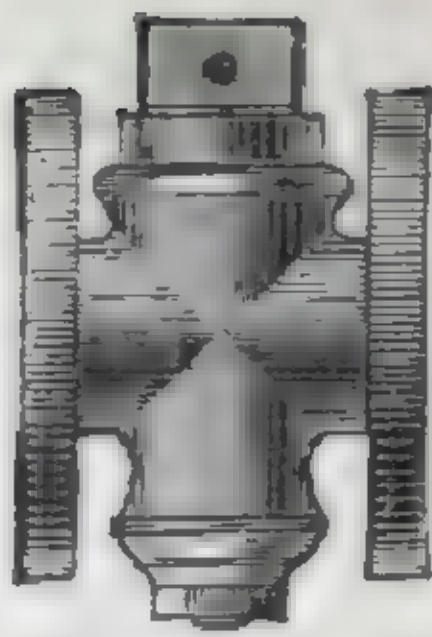
Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Chapman—Screwed	1 30	1 75	2 25	3 25	4 25	6 25	11 50	16 00	32 00	40 00
Flanged	2 50	3 00	4 00	5 00	7 50	10 00	16 00	20 00	40 00	48 00
Sliding Stem and Lever (extra)	1 00	1 20	1 40	1 60	1 80	2 00	2 25	2 50	2 75	3 00
Jenkins'—Screwed	1 50	2 00	2 85	4 00	5 00	7 50	14 00	20 00		
Ludlow—Screwed	1 25	1 65	2 15	3 15	4 25	6 25	11 50	16 00		
Flanged						11 50	18 00	22 00	31 00	43 00
Sliding Stem and Lever (extra)	1 00	1 00	1 00	1 00	1 00	1 00	1 25	1 25		
Kennedy—Screwed	1 20	1 75	2 50	3 50	5 00	7 50	15 00	22 00		
Flanged						12 00	22 00	26 00		

Iron Body, Brass Mounted.

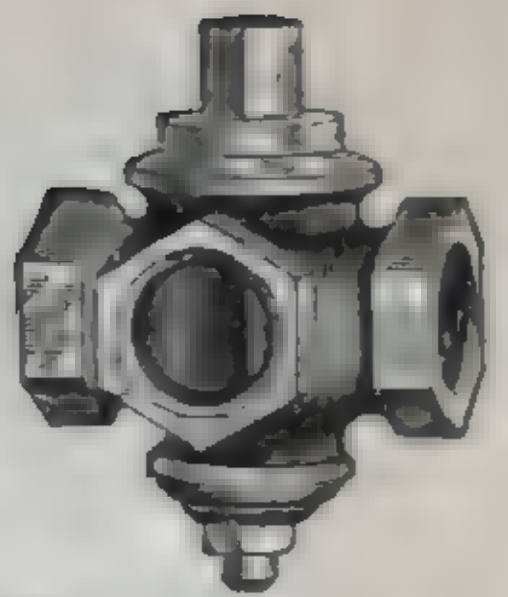
Size	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	10	12
Chapman—Screwed	10 00	13 00	16 50	18 00		25 00	32 00	38 00	48 00	64 80	80 00
Flanged	10 00	13 00	17 00	18 50		24 00	31 00	37 00	45 00	60 00	80 00
Hub Ends		15 00		19 00		25 00	30 00	36 00	42 00	60 00	80 00
Jenkins'—Screwed	12 00	15 00	18 00	21 00		30 00	36 00	50 00	62 00	85 00	120 00
Flanged	13 00	16 00	19 00	22 50		32 00	38 00	50 00	62 00	85 00	120 00
Ludlow—Single Gate, Screwed	9 30	11 50	15 25	16 75		24 00	28 50	36 00	41 50	53 00	67 00
Flanged	9 50	12 00	15 75	17 25		23 50	28 00	35 00	40 00	52 00	65 00
Hub Ends	9 50	13 00	15 00	16 00		23 00	26 00	34 00	39 00	52 00	65 00
Double Gate, Screwed		15 00	16 50	19 50	22 50	25 00	32 50	38 00	48 00	66 00	88 00
Flanged		15 50	17 00	20 00	22 00	24 50	32 00	37 00	47 00	63 00	83 00
Hub Ends		14 50	16 00	19 00	21 00	24 00	30 50	37 00	45 00	63 00	83 00
Kennedy—Screwed, Flanged or Hub Ends	12 00	15 00	18 00	20 00		25 00	30 00	40 00	50 00	65 00	90 00



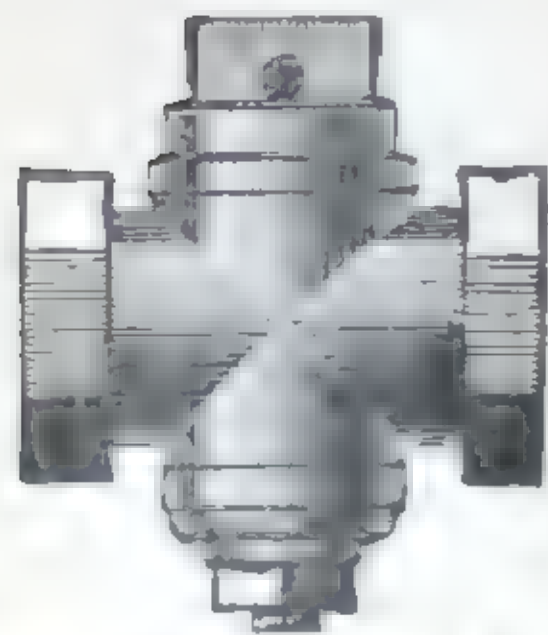
Straight Cock.



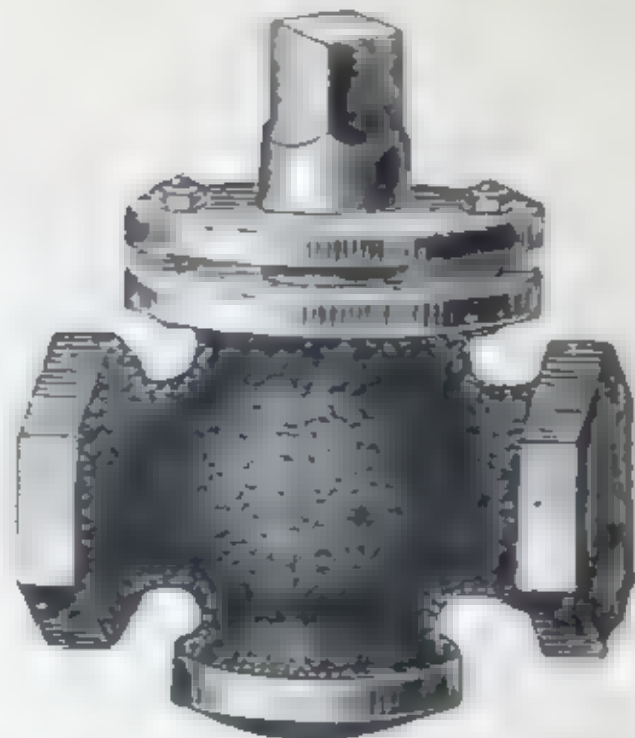
Flanged Cock.



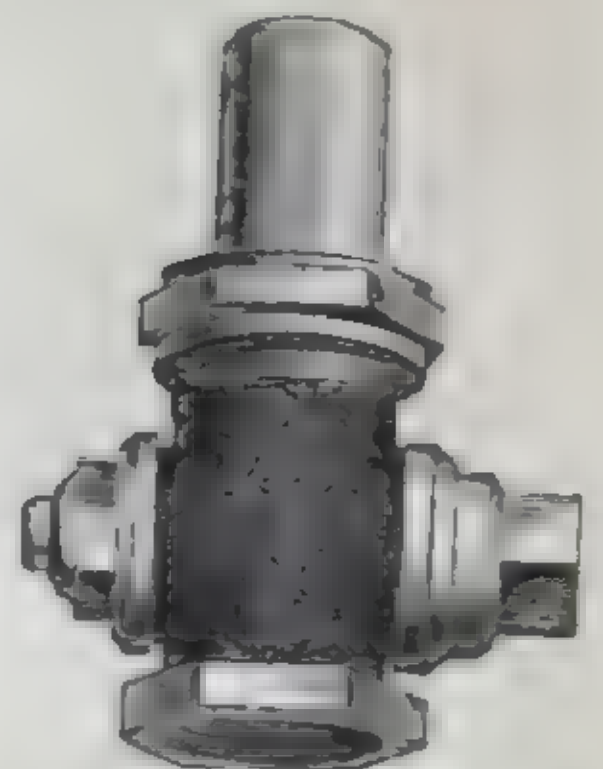
Threeway Cock.



Gas Service Cock.



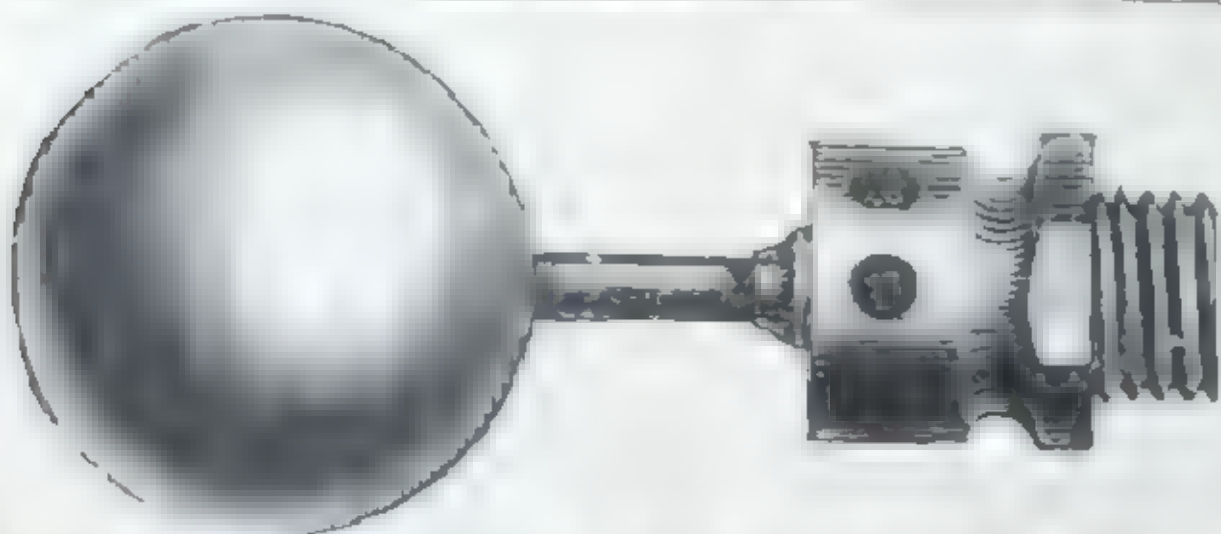
Packed Plug Cock.



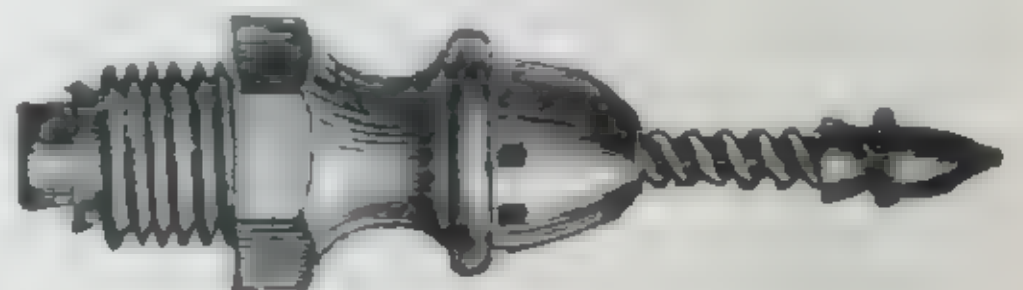
Union Meter Cock.

BRASS COCKS.

Size	1/2	3/4	1	1 1/2	2	2 1/2	3	3 1/2	4 in.
Standard Cocks	70	75	1 10	1 50	2 25	3 75	4 80	7 25	14 00
Heavy, Flanged	80	95	1 30	1 90	2 75	5 00	6 00	9 00	17 00
Threeway			3 50	4 50	5 50	8 00	10 00	15 00	22 00
Packed Plug			1 65	2 25	3 40	5 50	7 00	10 00	18 00
Union Meter Cocks	55	65	75	1 00	1 40	2 20	3 00	5 00	10 00
Gas Service Cocks			75	1 00	1 30	2 00	3 00	4 25	6 75
Union Meter Cocks			40	85	1 25	1 50	2 50		
Hose Cocks						7 00	9 00	13 00	20 00



LOW PRESSURE SAFETY VALVE.



VACUUM VALVE.

Size	1	1 1/2	2	2 1/2	3	3 1/2	4 in.
Low Pressure Safety Valves	2 50	3 00	4 00	5 00	8 00		
Vacuum Valves, for 1/2 or 3/4 inch Pipe, per dozen							12 00
with Flexible Seats, " "							15 00

DAVIS AIR VALVES.

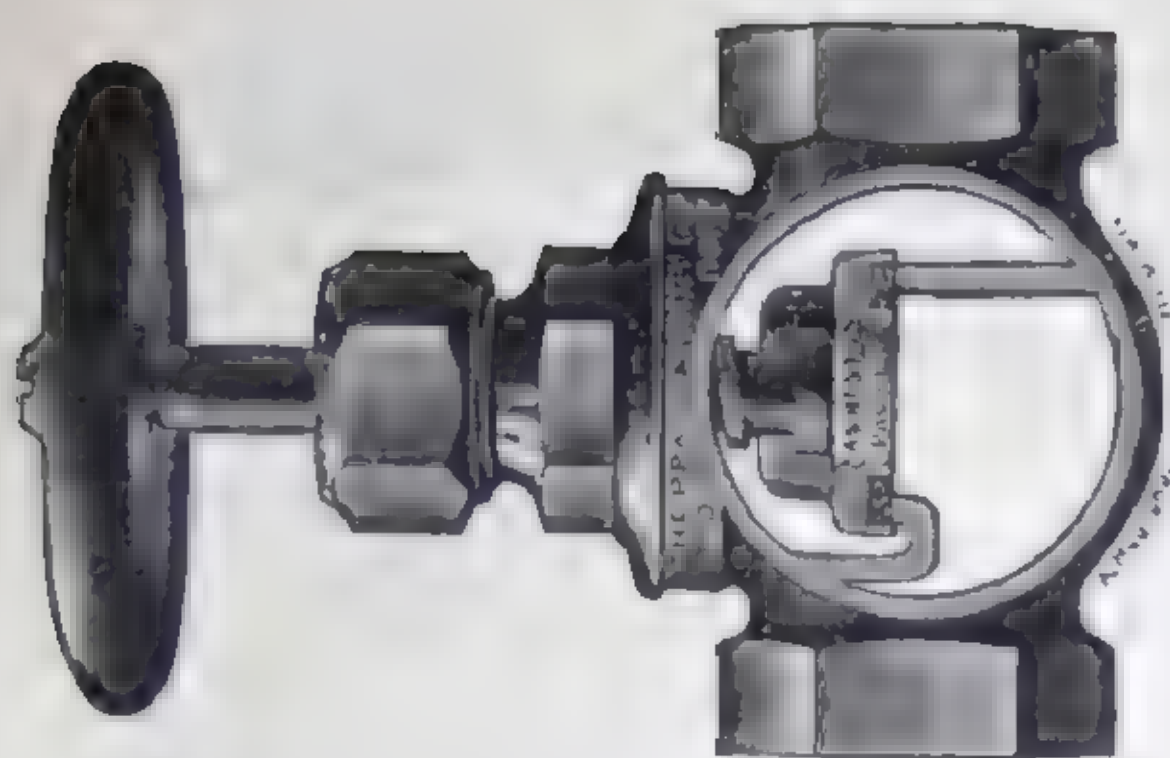
Brass Finished, No. 1 and 2	per doz.	13 50	Nickel Plated	per doz.	15 00
" " " 3 and 4	"	15 00	" " " "	"	17 00
" " " 5 and 6	"	17 00	" " " "	"	19 00

WILKINSON'S AIR VALVES.

Iron, Plain	each	\$1 00
Brass, with Elbow on side	Nickel Plated	1 50

MARSH AIR VALVES.

Finished, Brass, No. 1, each	\$1 15.	No. 2, 3, 4, A & B, each	\$1 25
Nickel Plated, " " "	1 30.	" " " " " " "	1 40



VULCANIZED ASBESTOS DISC.

Globe or Angle Valves.

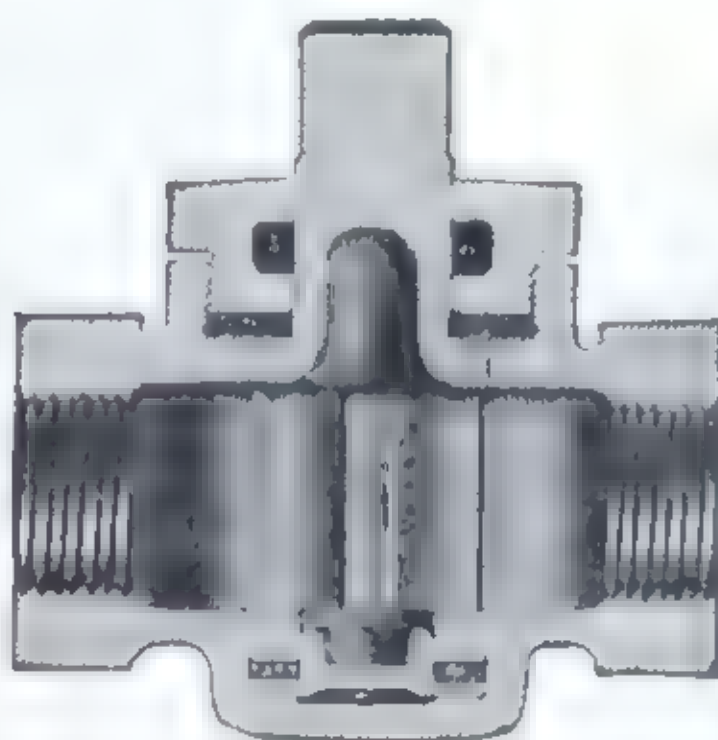
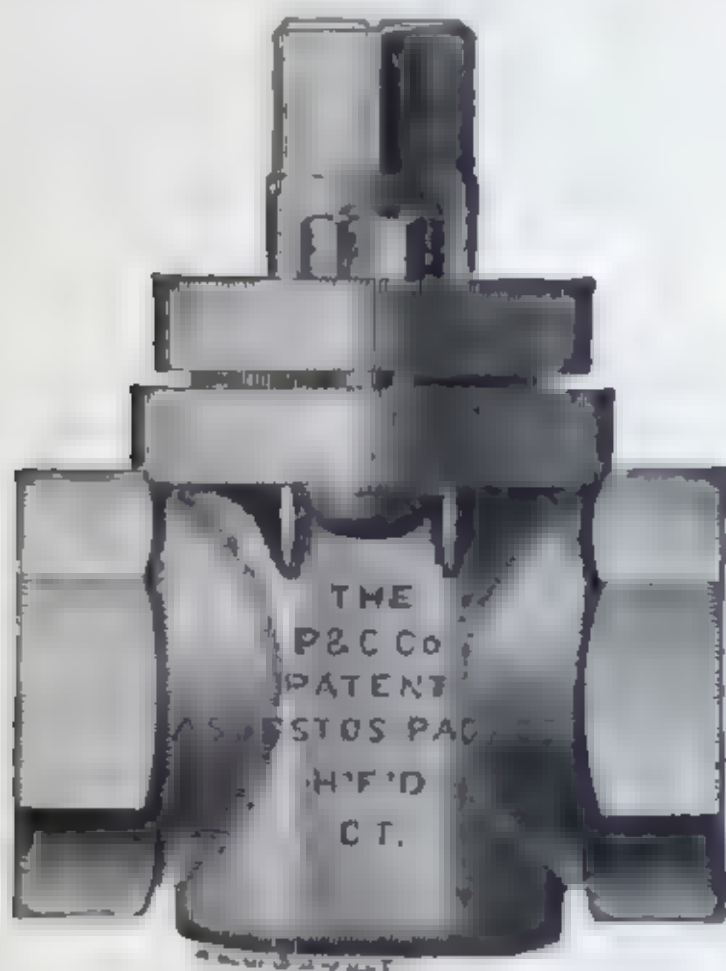
Price List of Brass Valves.

$\frac{1}{4}$ in	$\frac{1}{2}$ in	$\frac{3}{4}$ in	1 in	1 $\frac{1}{4}$ in	1 $\frac{1}{2}$ in	2 in
1 10	1 25	1 60	2 20	2 80	4 00	5 50

ASBESTOS PACKED COCKS,

For Steam, Water, Gas, etc.

The Only Cock that will keep tight under all circumstances As the plugs only come in contact with Asbestos, they never cut or grind.

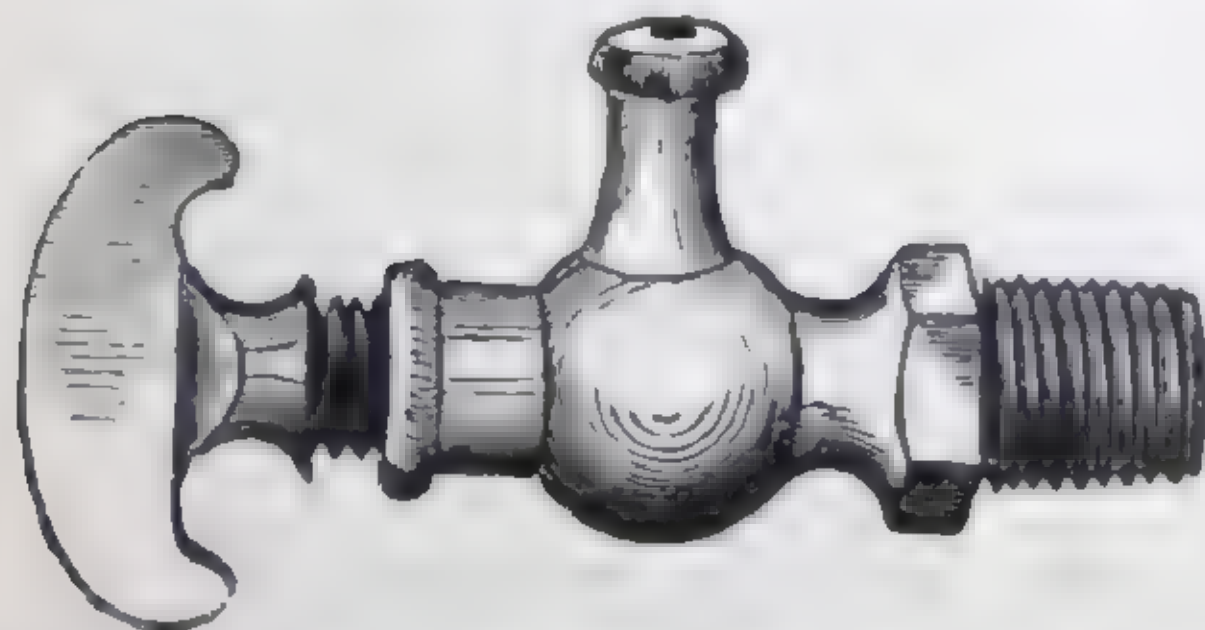


All Iron, Barfed Plugs.

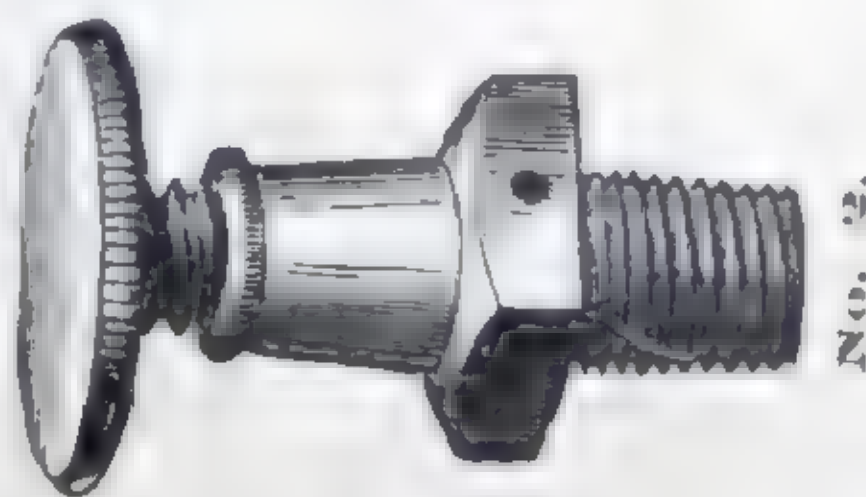
Brass, Steam Metal.

$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	$\frac{1}{2}$	3	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
1 30	1 45	1 60	2 10	2 50	3 50	4 75	7 00	12 00	18 00	30 00	2 50	3 15	4 20	6 00	7 75

COMPRESSION AIR VALVES.



No. 1.



No. 2.

No. 1, for $\frac{1}{2}$ or $\frac{3}{4}$ in. pipe, per doz.	\$6 00	No. 1, Nickel Plated, per doz.	\$9 00
No. 2, " " and $\frac{1}{2}$ in. pipe, " "	4 00	No. 2, " " " "	6 00



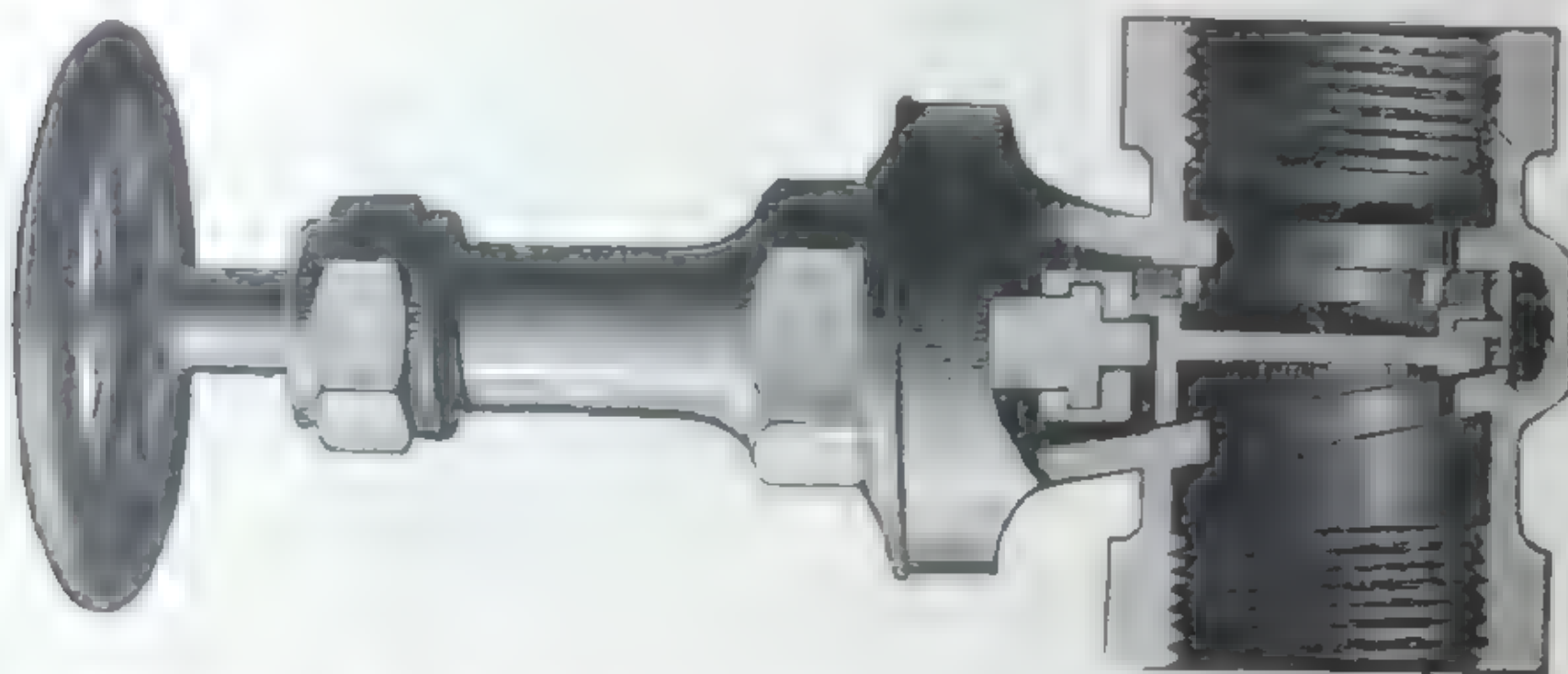
FIRE Or HOSE VALVES. STEAM METAL.

With or without Cap and Chain for Hose End.

Diameter opening . . inches	1	1 1/4	1 1/2	2	2 1/2	3
Without Cap or Chain. . . .	2 50	3 50	5 00	7 50	14 00	20 00
Finished Brass Cap and Chain	1 25	1 35	1 50	1 75	2 50	3 50

These Valves have one male end to fit Hose Couplings, and one female end to fit Standard Wrought Iron Pipe.

For Prices of Linen Fire Hose, see page 30.



JENKINS' PATENT GATE VALVES.

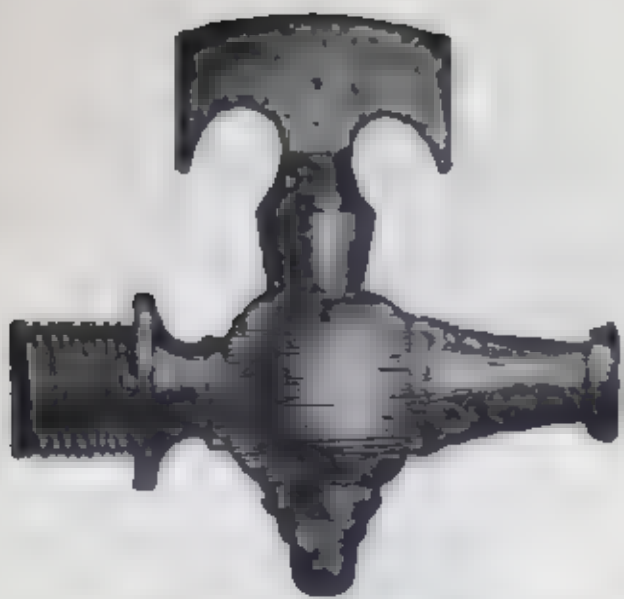
Size	1	1 1/4	1 1/2	2	2 1/2	3
Gate Valves, Brass	1 50	2 00	2 85	4 00	5 00	7 50
Flged	3 00	4 00	5 00	7 00	9 50	13 50

IRON BODY, Composition Mounted.

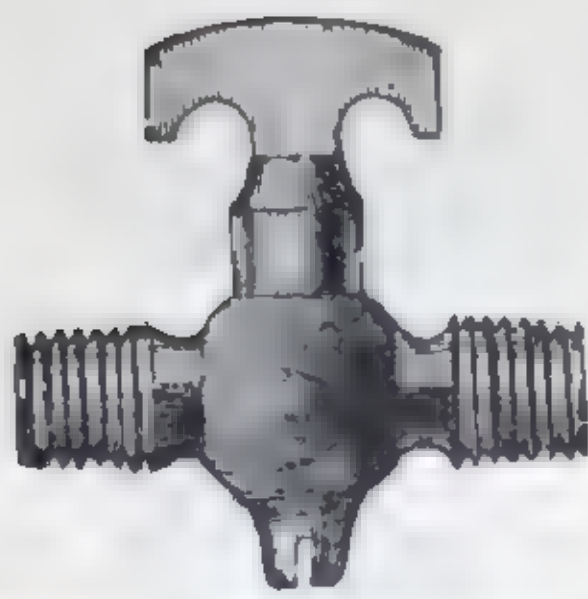
Size	2	2 1/2	3	3 1/2	4	5	6	7	8	10	12
Gate Valves, Screwed,	8 00	12 00	15 00	18 00	21 00	30 00	36 00	50 00	62 00	85 00	120 00
Flanged,	9 00	13 00	16 00	19 00	22 50	32 00	38 00	50 00	62 00	85 00	120 00
Huber Spigot-Gate Valves,	9 00	12 00	15 00	18 00	21 00	30 00	36 00	50 00	62 00	85 00	120 00

To Price of Gate Valves add for Sliding Stem and Lever:

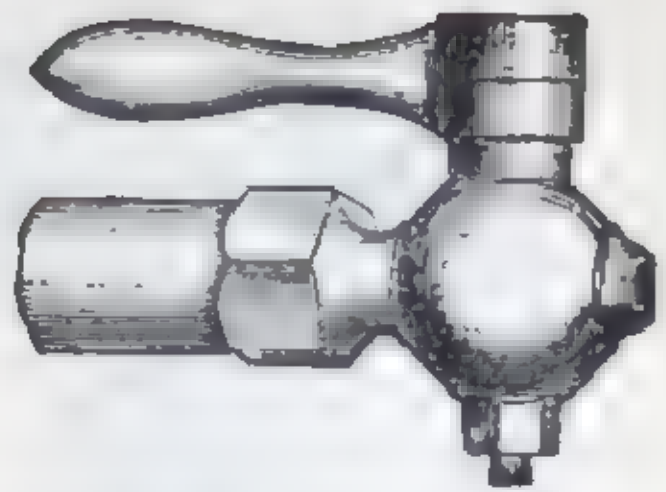
Size	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Sliding Stem and Lever extra	1 00	1 00	1 50	1 60	2 00	2 50	3 00	4 50



Air Cock, Single Thread.

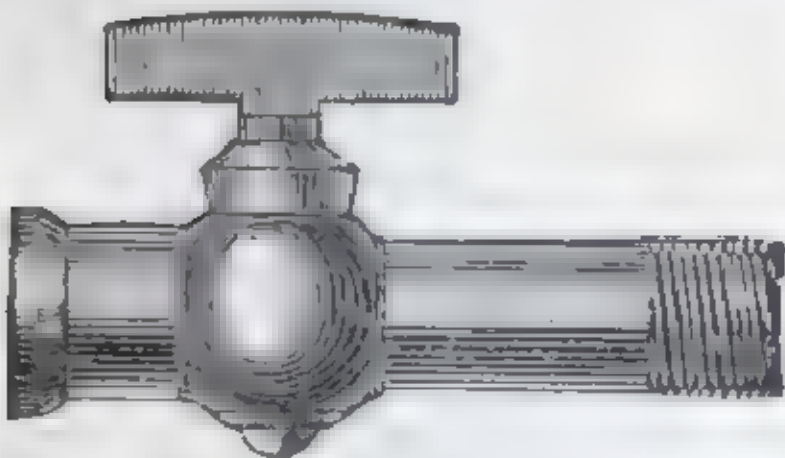


Air Cock, Double Thread.

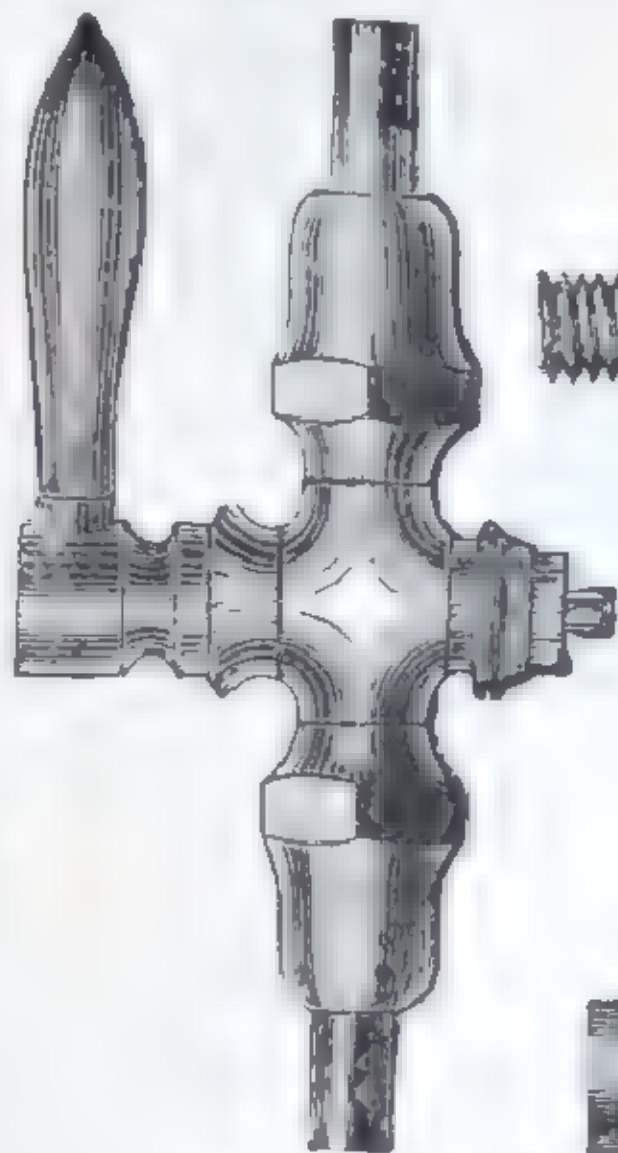


Cylinder Cock, Lever Handle.

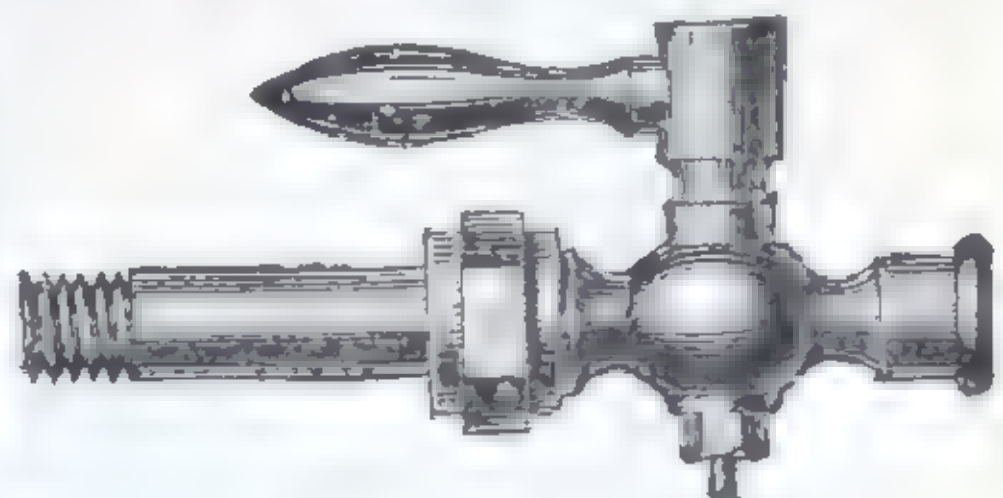
Size.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$ in.
Air Cocks, Single Threads, per dozen.....	\$5 00	\$5 50	\$7 50	\$10 00
“ “ Bibb Nozzle “	7 80	8 40	12 00	15 00
“ “ Double Thread “	5 40	6 00	9 00	12 00
Cylinder Cocks Lever or T. Handle.....		10 00	12 00	15 00



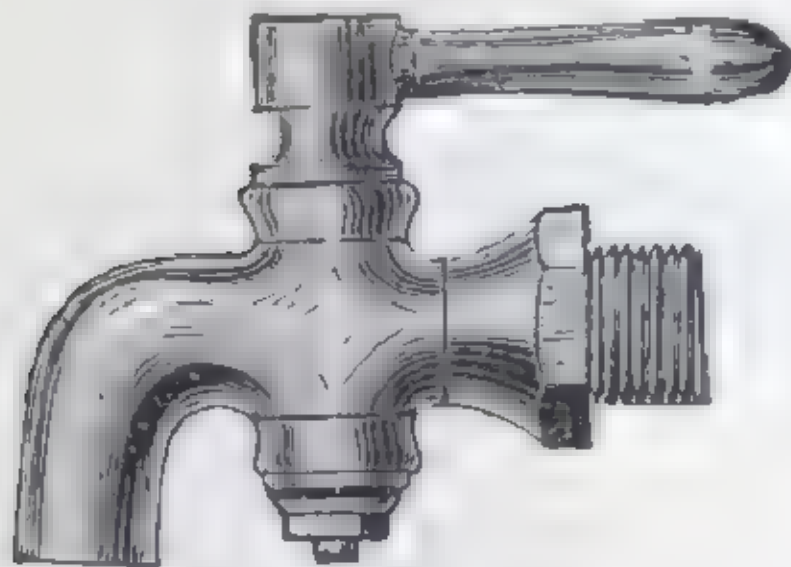
Steam Gauge Cock.
Plain, per dozen.....\$7 00



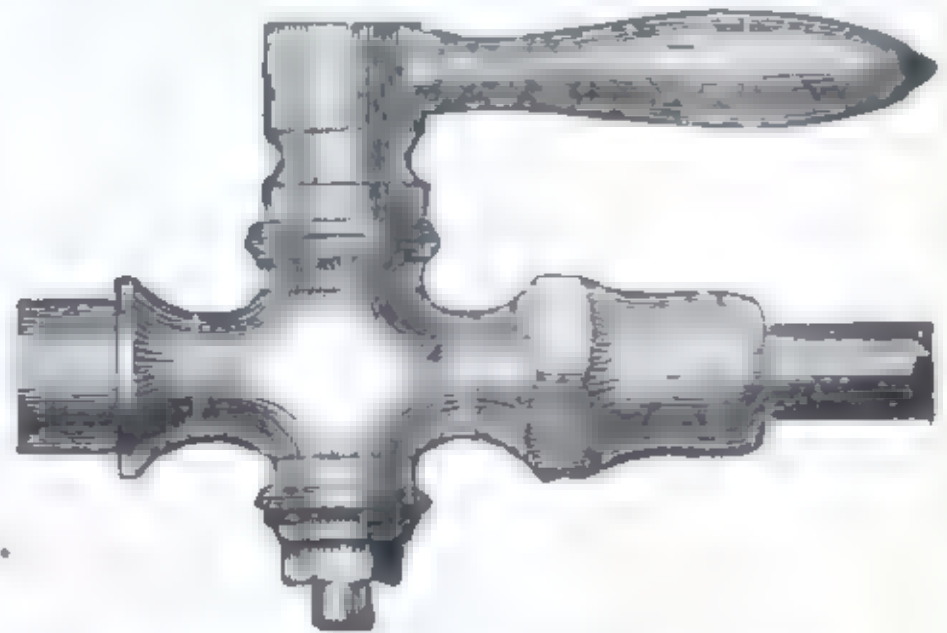
Steam Stop,
Double Coupling.



Steam Gauge Cock.
With Coupling.....\$15 00



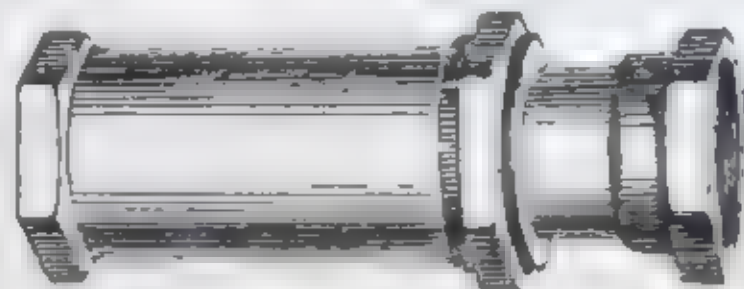
Steam Bibb.



Steam Stop, Single Coupling.

STEAM BIBBS AND STOPS.

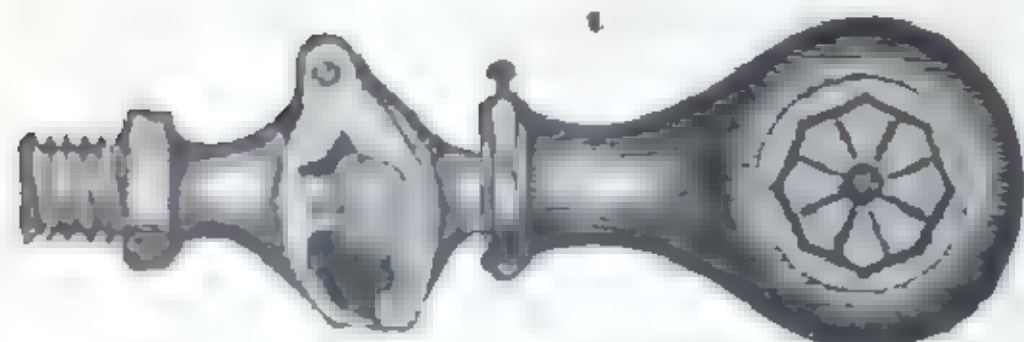
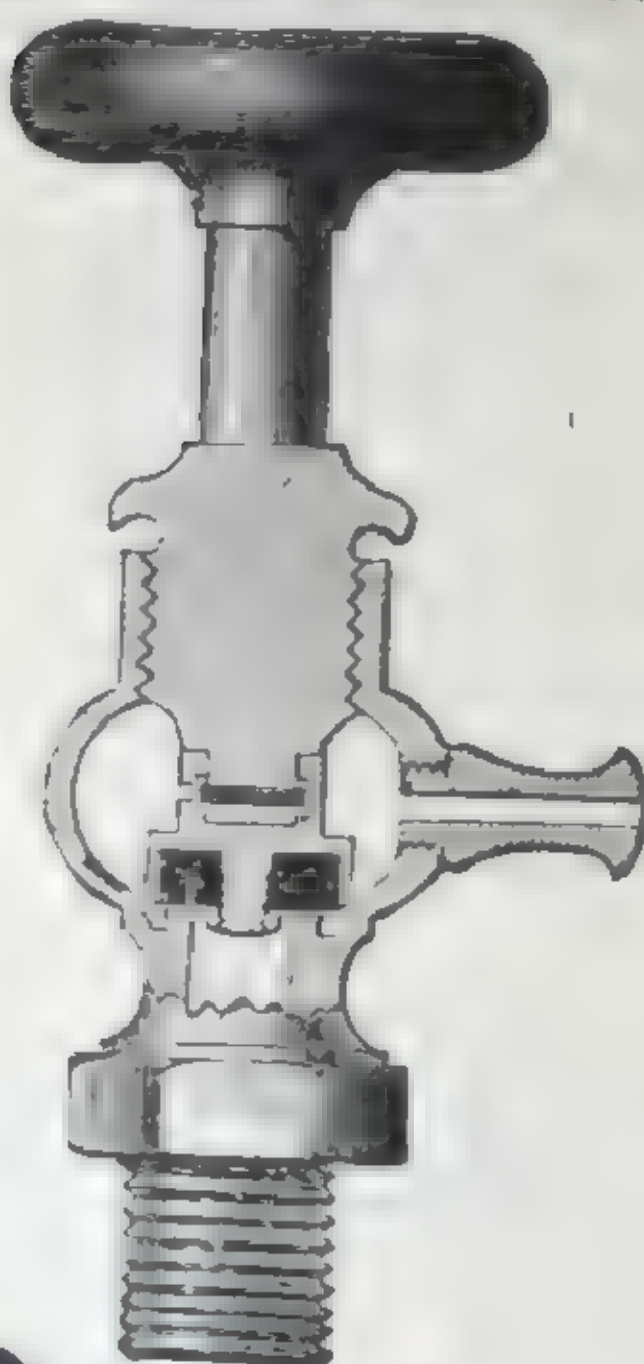
Size.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1 in.
Bibbs, Finished.....per dozen	15 00	18 00	24 00	27 00	36 00
“ “ Rough.....“	12 00	15 00	18 00	21 00	30 00
Stops, Single Coupling, Finished....“	21 00	27 00	36 00	42 00	51 00
“ “ “ “ Rough.....“	18 00	21 00	24 00	30 00	42 00
“ “ Double “ “ Finished....“	24 00	30 00	39 00	46 00	56 00
“ “ “ “ “ “ Rough.....“	21 00	24 00	30 00	36 00	48 00



EXPANSION AND SWING JOINTS.

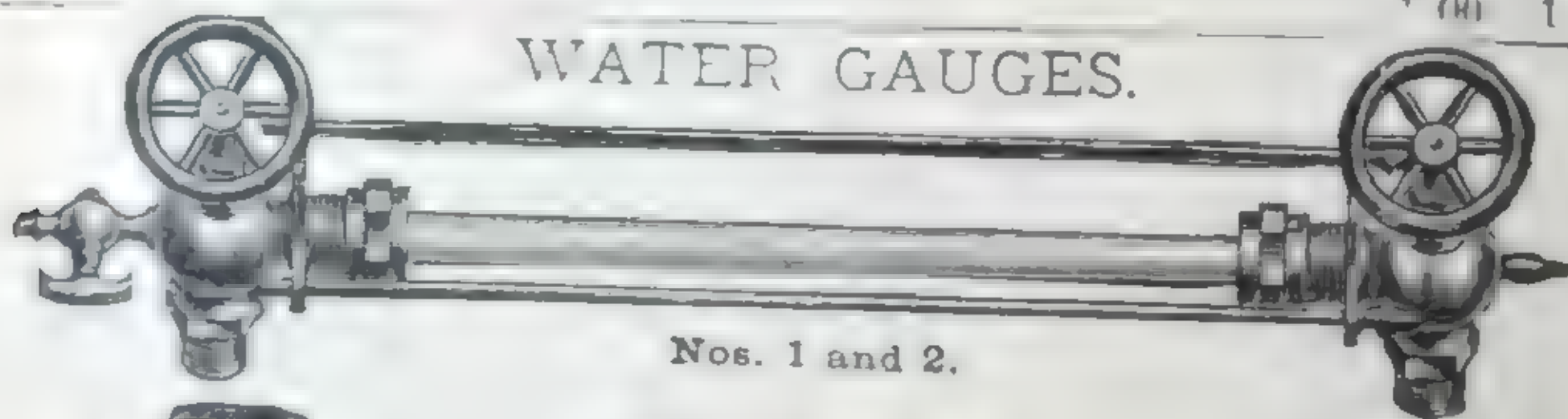
Size.	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	8
Brass.....		1 50	2 00	2 75	4 00	5 50	8 00	16 00	24 00					
Iron Body, Screwed..|							11 00	13 00	17 00	25 00	30 00	45 00	55 00	100 00
“ “ Flanged..|							18 00	20 00	25 00	35 00	40 00	55 00	65 00	110 00
Steam Swing Joint .|	1 00	1 50	2 00	3 00	4 00	6 00	10 00							

GAUGE COCKS.

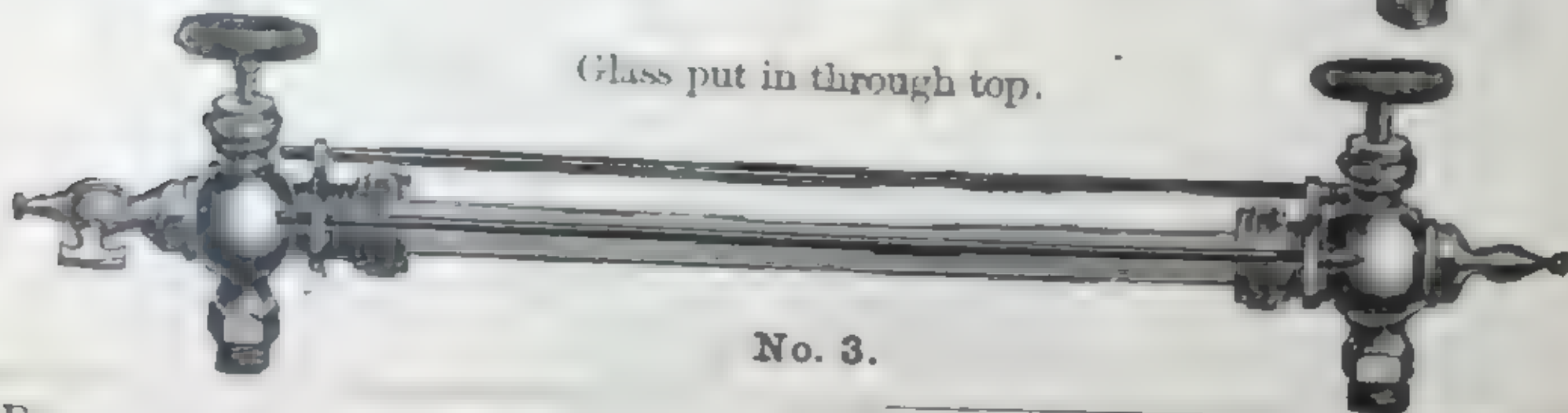


		"Register's."		
				in.
Compressed Cock, Wood Handles,	per dozen.....	10 50	12 00	15 00
" " " Smiling Nut, "	"	14 00	15 00	18 00
" " " Jenkins' Seat, "	"	15 00	18 00	21 00
Miscellaneous	"	9 00	12 00	15 00
Plug	"		20 00	27 00
Wheel	each	1 00	1 00	1 00
Register	"	1 00	1 00	1 00

WATER GAUGES.



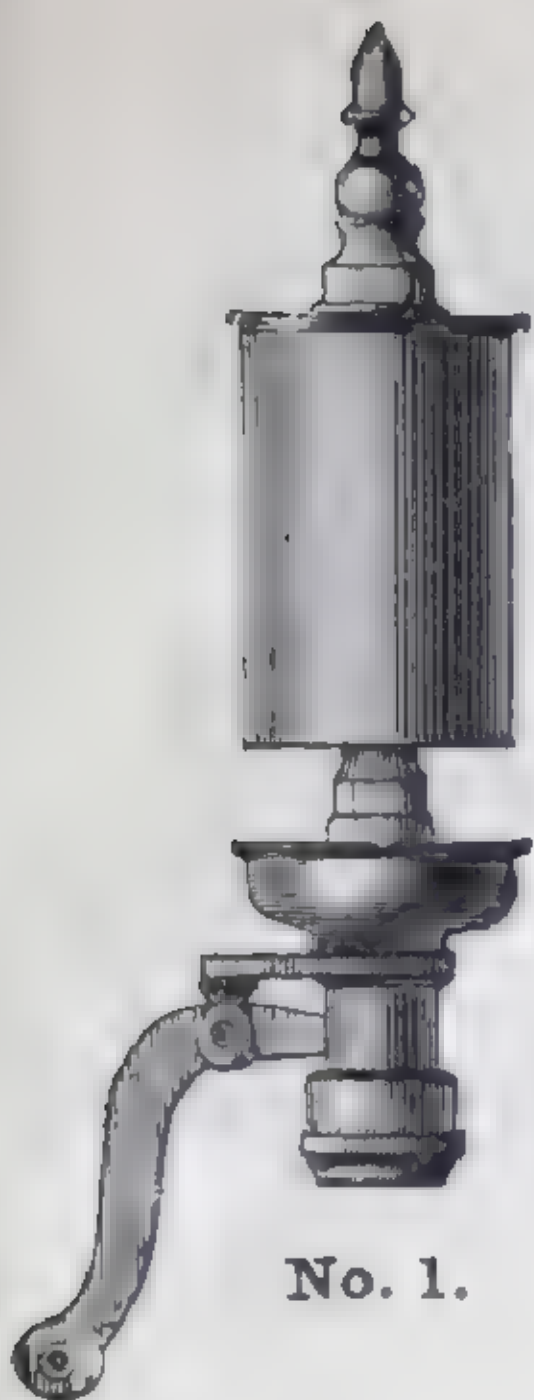
Glass put in through top.



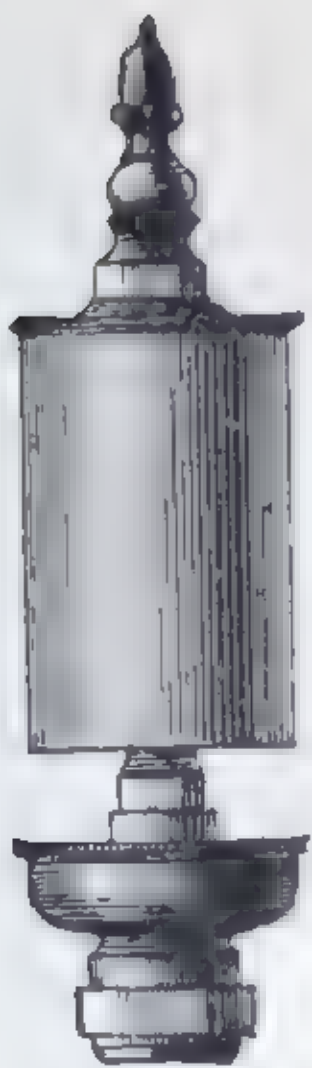
Size of Pipe						3	1 1/2	1 in.
No	1.	Rough Body,	Iron	Wheels,	each			
"	2.	Finished	"	"	"	2 00	3 00	
"	"	"	Wood	"	"	3 00	4 00	6 00
"	3.	"	Brass	"	"	4 00	5 00	7 00
"	"	"	Wood	"	"		9 00	14 00
						6 00	8 00	12 00

LOCOMOTIVE

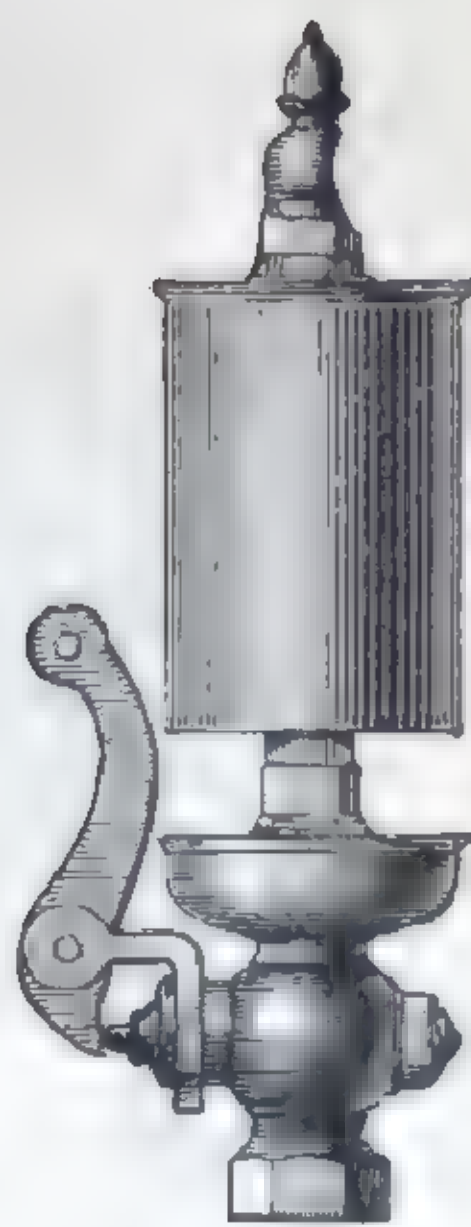
LOCOMOTIVE AND STEAMSHIP GAUGES.	6 00	8 00	1
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No. 1.



No. 2.

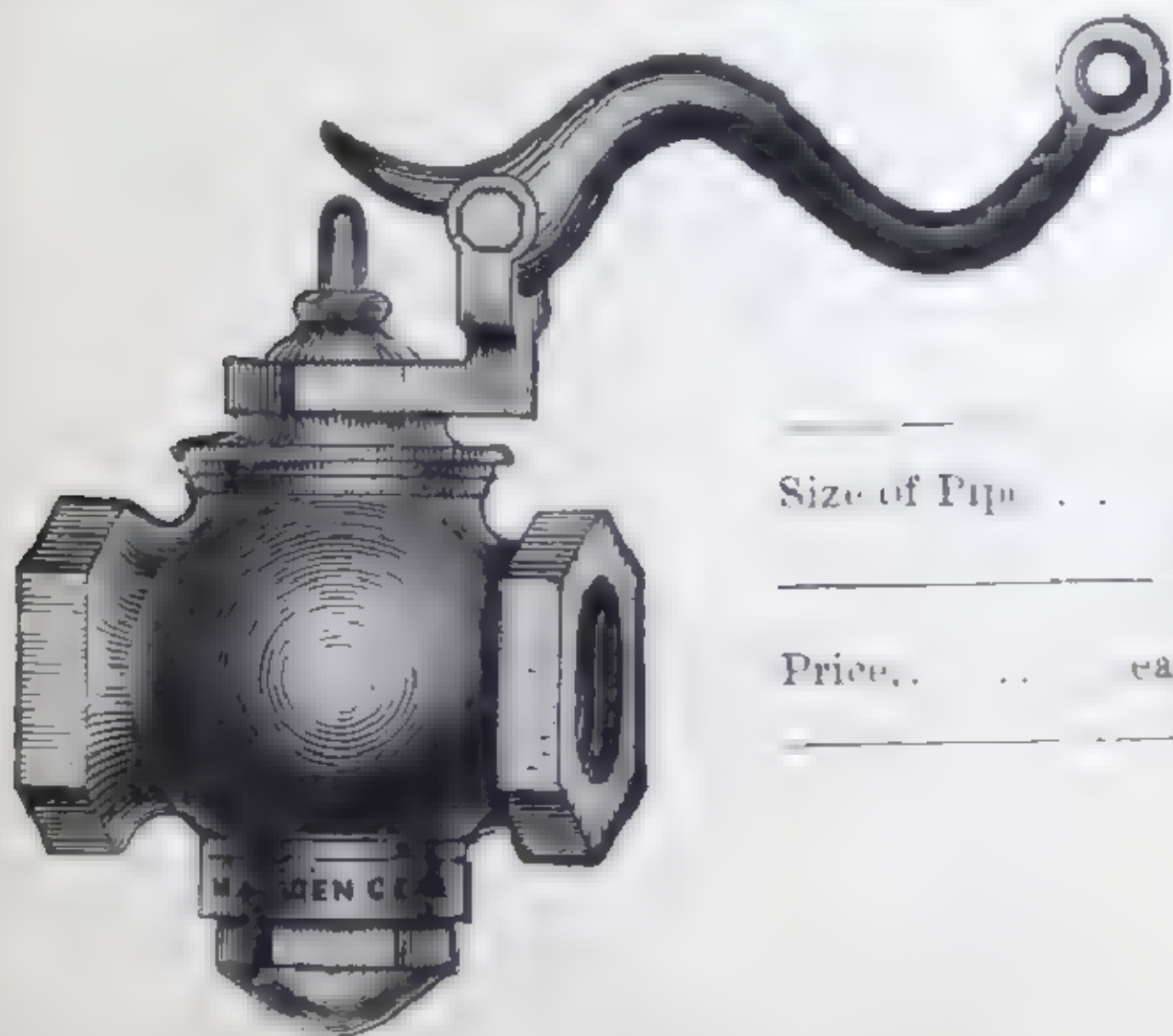


No. 3.

STEAM WHISTLES.

Diameter of Bell...	1	1½	2	2½	3	3½	4	5	6	8 in.
No. 1, without Valve,.....	1 70	2 00	3 25	4 50	6 00	8 00	11 00	18 00	24 00	65 00
No. 2, with Lever Valve,.....	3 50	4 00	4 75	6 00	8 00	10 00	14 00	22 00	30 00	80 90
No. 3, " Spring ".....	4 00	4 50	5 50	7 25	9 00	11 50	15 50	24 00	32 00	90 00

Whistle Chimes,—any number and sizes of Bells to order. Prices special.



WHISTLE VALVES.

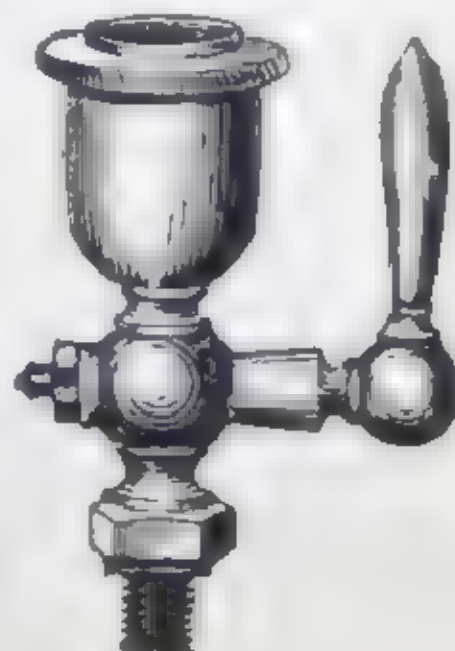
Size of Pipe . . .	1	3¼	1	1½	1½	2	2	3 in.
Price, . . . each	2 25	2 75	3 25	4 60	5 50	9 50	20 00	30 00

OIL CUPS.



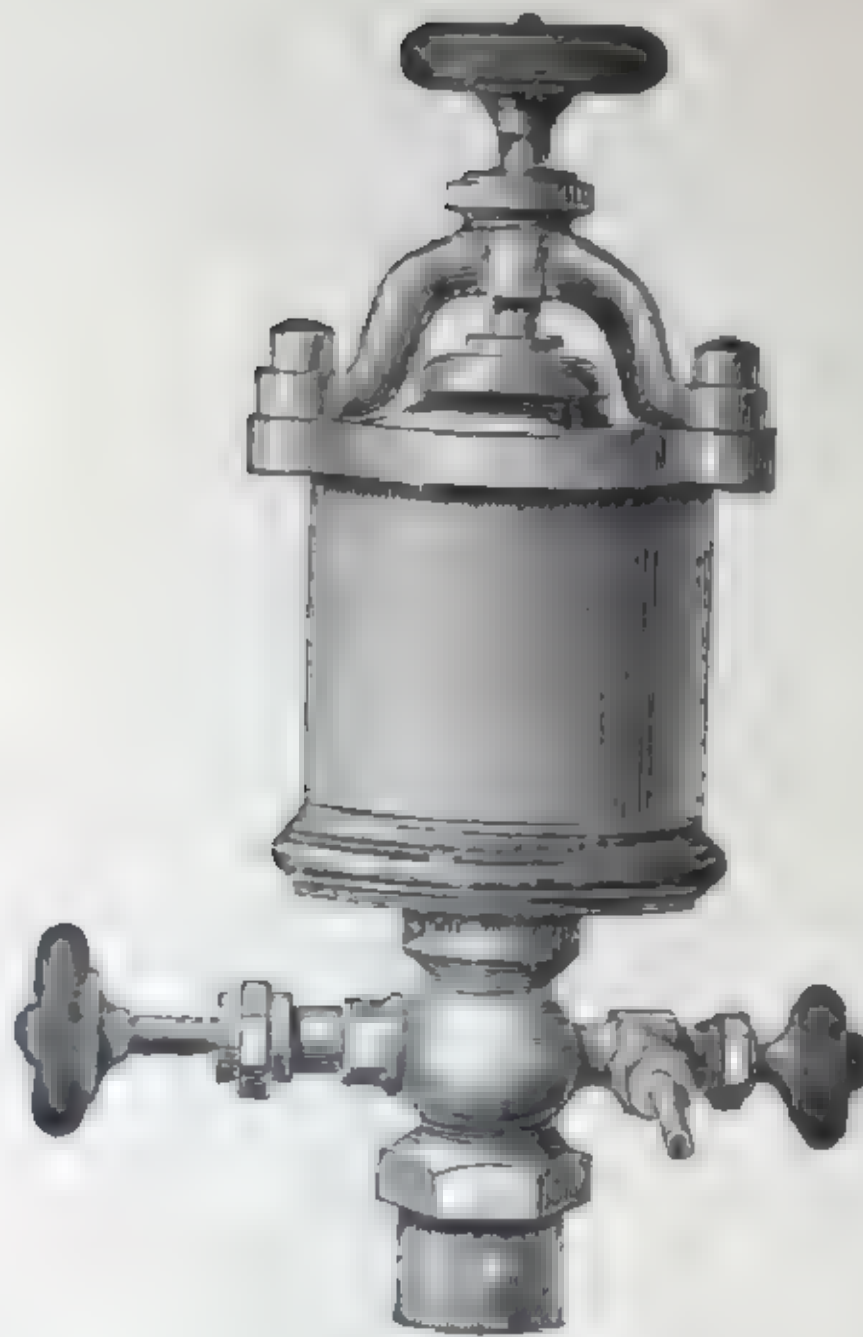
Diameter of Bowl, inch	1¼	1½	1¾	2	2¼
Single Cock, Lever Handle, per doz.	19 00	26 50	33 00	39 00	48 00
" " Tee " " "	18 00	24 00	30 00	36 00	43 00

Diam. of Bowl, in.	¾	¾	1	1¼	1½	1¾	2	2¼	2½	3
Plain, . . per doz.	4 00	4 00	5 00	7 00	11 00	21 00	21 00	27 00	33 00	42 00
Fancy Top. "	6 00	9 00	15 00	18 00	24 00	36 00	42 00	48 00	51 00	

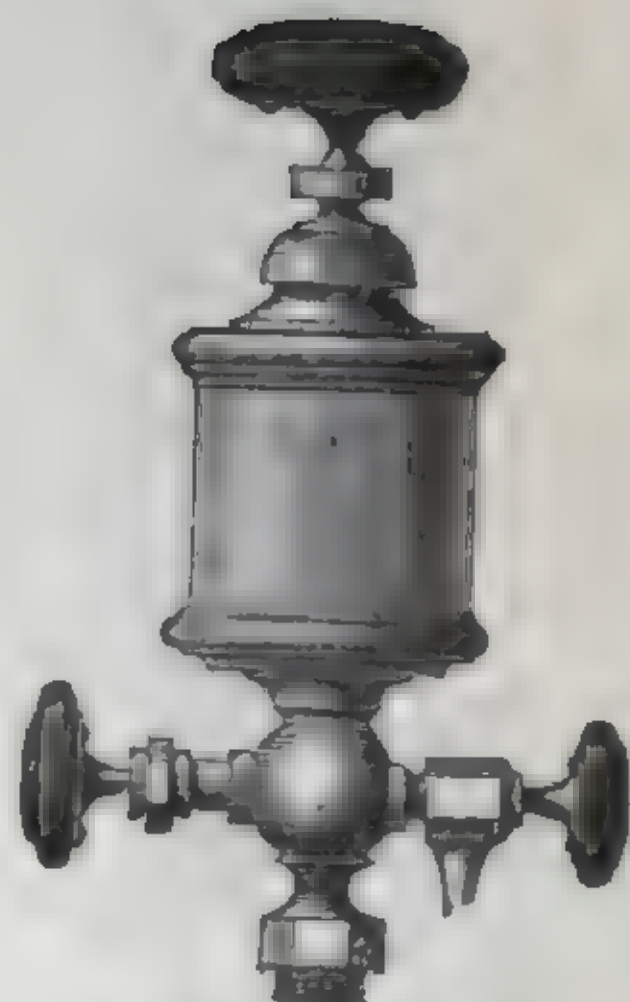




COMMON.



YOKE.



PLAIN.

LUBRICATORS.

Diameter of Bowl	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	4	5	7
Common Wood Handles	2 00	2 25	2 50	2 75	3 00	4 00	5 00	6 00	8 00		
Nathan & Dryfuss, Plain	3 50		5 00	7 00	9 00		10 50	14 00	21 00		
" " " with Yoke								16 00	24 00	33 00	42 00

DETROIT SIGHT-FEED LUBRICATORS.

	PLAIN.	NICKEL PLATED.		PLAIN.	NICKEL PLATED.
Half Pint,	22 00	25 00	Quart.	45 00	50 00
Pint.	30 00	35 00	Half Gallon.	60 00	65 00

HANDY SIGHT-FEED LUBRICATORS.

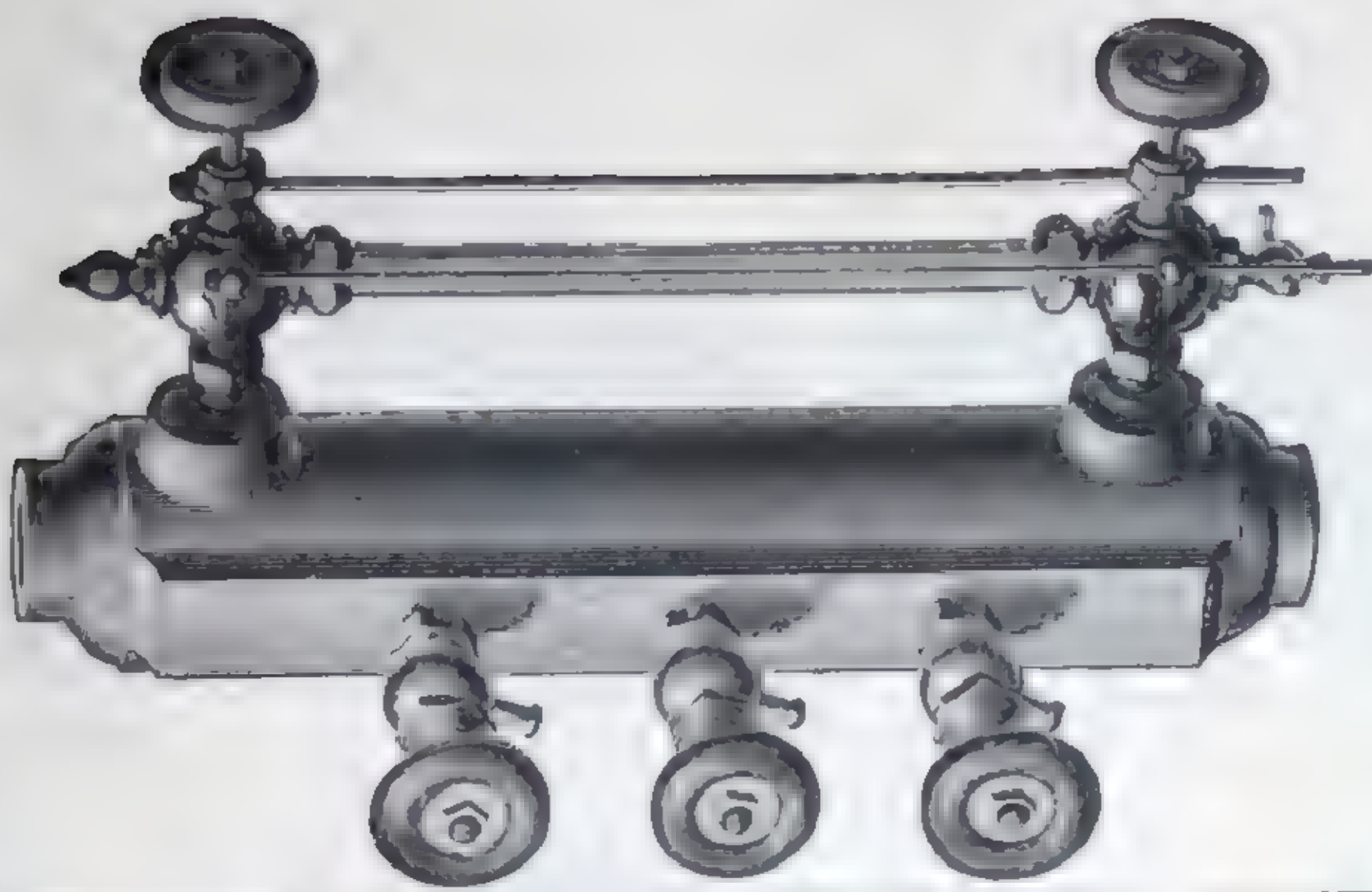
	1/2 pint.	1/2 pint.	1/2 pint.	1 pint.	1 1/2 pint.	1 quart.
Brass Finish,	10 00	12 00	14 00	16 00	20 00	24 00

HOLLAND SIGHT-FEED LUBRICATORS.

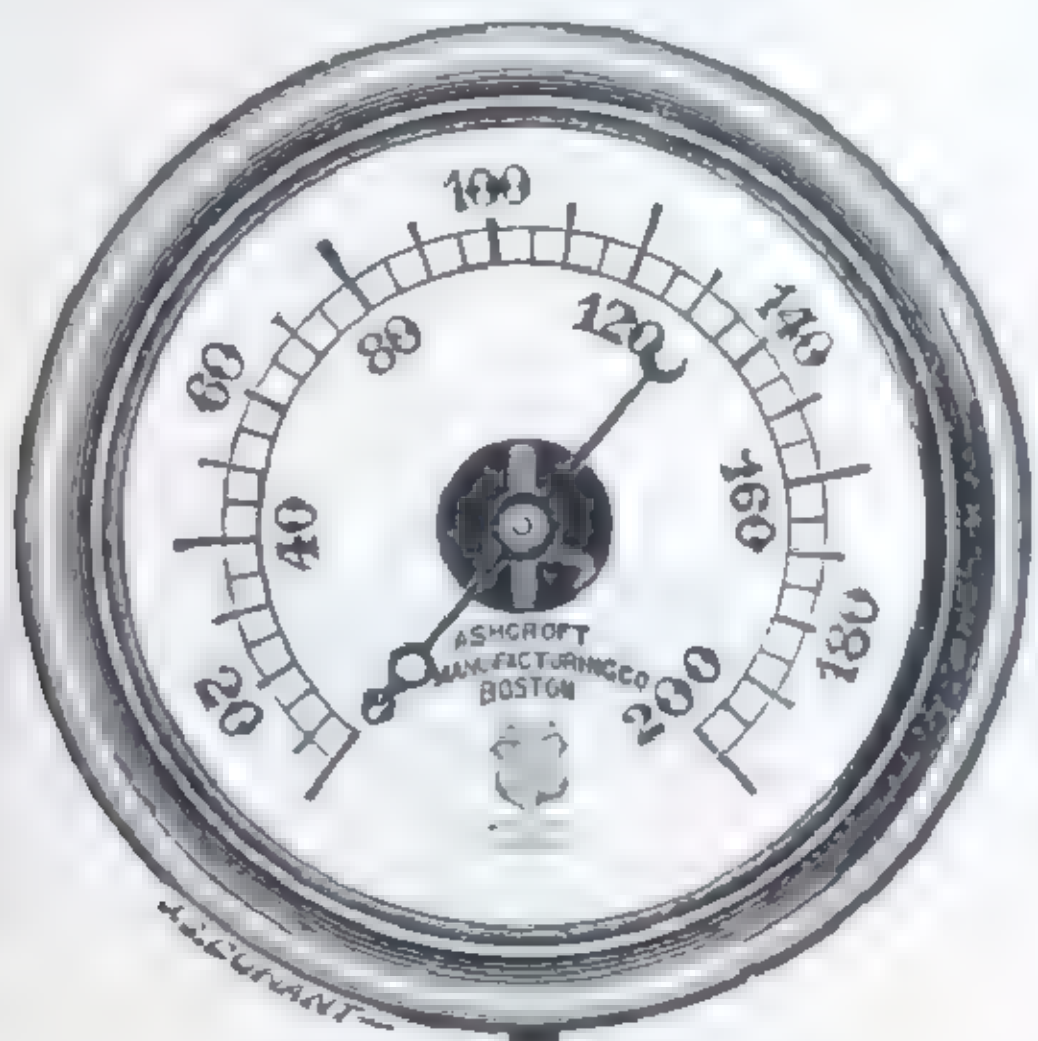
	BRASS.	NICKEL.		BRASS.	NICKEL.
1-Fourth Pint,	15 00	16 00	One Quart,	45 00	50 00
Half " "	23 00	25 00	Half Gallon,	60 00	65 00
One " "	30 00	35 00	One " "	90 00	95 00

THE ACME, (MICHIGAN) LUBRICATOR.

	BRASS.	NICKEL PLATED.	Portable Cup, without Gauge Glass.		
Half Pint,	20 00	21 00		BRASS.	NICKEL PLATED.
Pint.	28 00	29 50	One-third Pint,	12 00	13 00
Quart.	38 00	40 00	One-half " "	14 00	15 00
Half Gallon,	50 00	52 00	Pint,	16 00	17 00
Gallon,	60 00	62 50			



COMBINATION WATER COLUMNS,—Comprising Steam and Water Gauges, Gauge Cocks, etc., complete, Price, No. 1, \$18 00.
" " 2, 25 00.

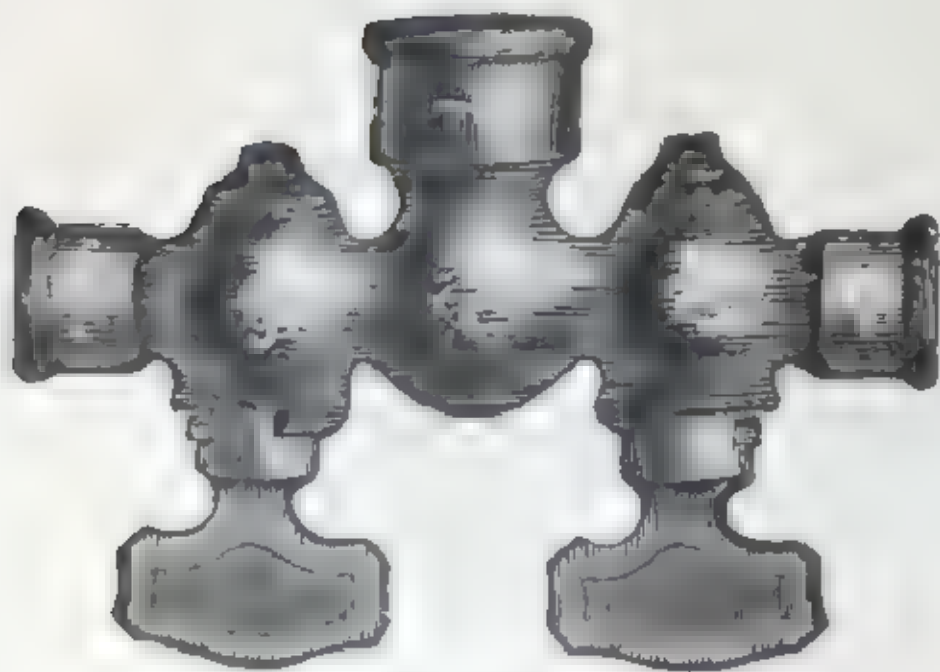


STEAM GAUGES.

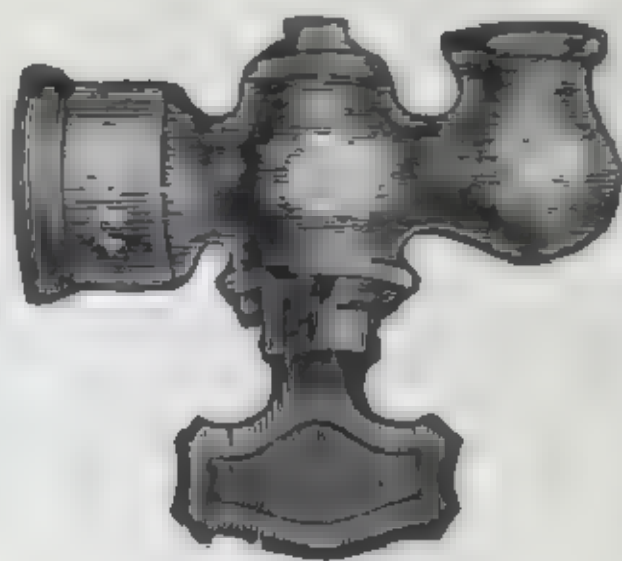
Size of Dial	2	2½	3½	4½	5	5½	6	6½	8½	9	10	12
American Steam Gauge Co.												
Brass Case		8 00	9 00	9 00	10 00	11 00	16 00	18 00	32 00	35 00	50 00	80 00
Iron Case		7 00	7 00	7 00	8 00	9 00	14 00	16 00	...	...	...	...
Ashcroft Mfg Co.												
Brass Case	8 00	...	8 00	8 00	...	12 00	16 00	20 00	30 00	...	40 00	70 00
Iron Case	9 00	...	6 00	6 00	...	8 00	12 00	16 00	24 00	...	40 00	50 00
Crosby Steam Gauge Co.												
Brass Case . . . . .	...	10 00	10 00	...	12 00	...	14 00	17 00	20 00	28 00	...	38 00
Iron Case . . . . .	...	...	9 00	...	10 00	6 00	10 00	14 00	16 00	20 00	...	...

STEAM, VACUUM, HYDRAULIC AND TEST GAUGES, ENGINE COUNTERS AND CLOCKS,
AT MANUFACTURER'S PRICES.

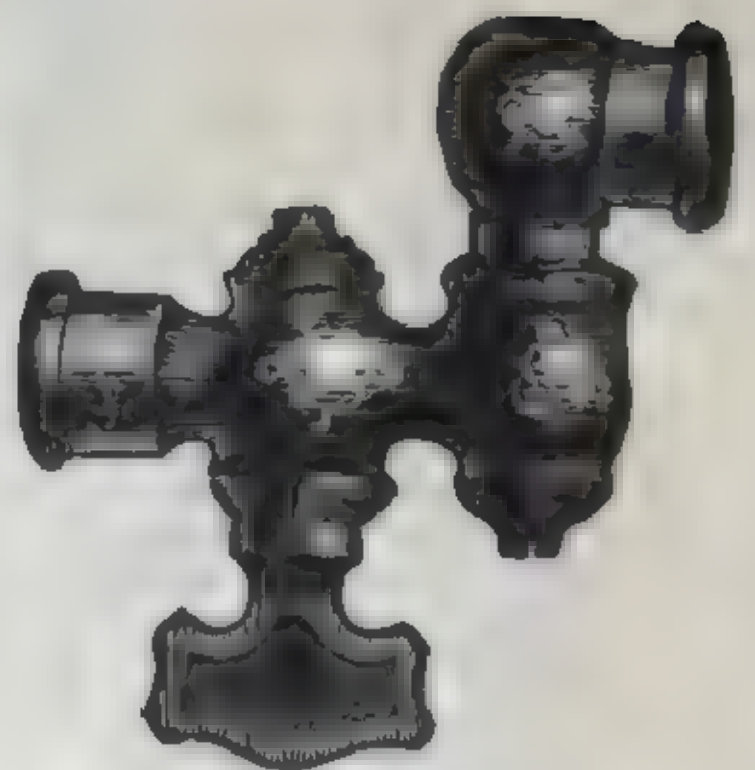
FINISHED BRASS GAS FITTINGS.



Double Pendant Cock.



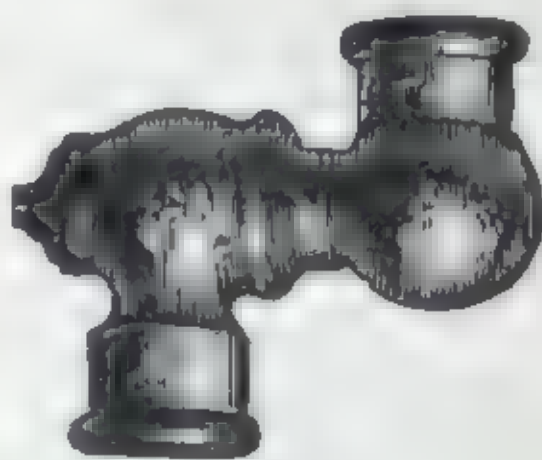
Single Pendant Cock.



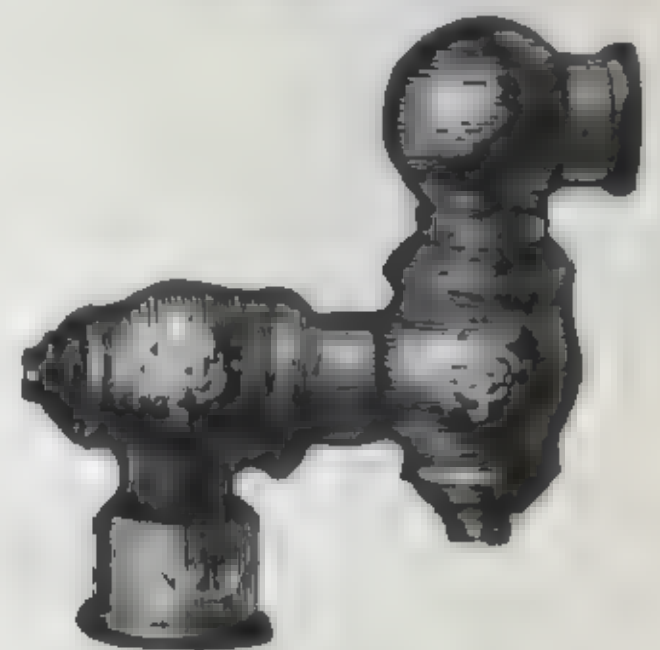
Bracket Cock.



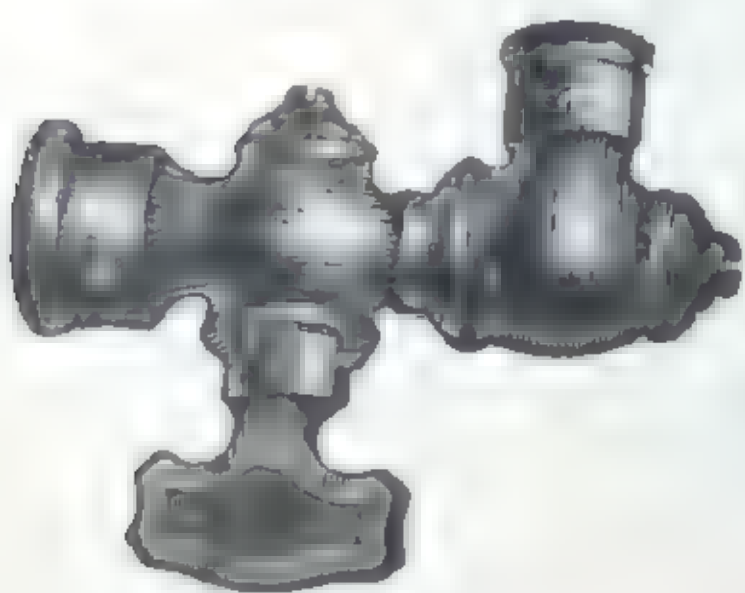
Pillar Cock.



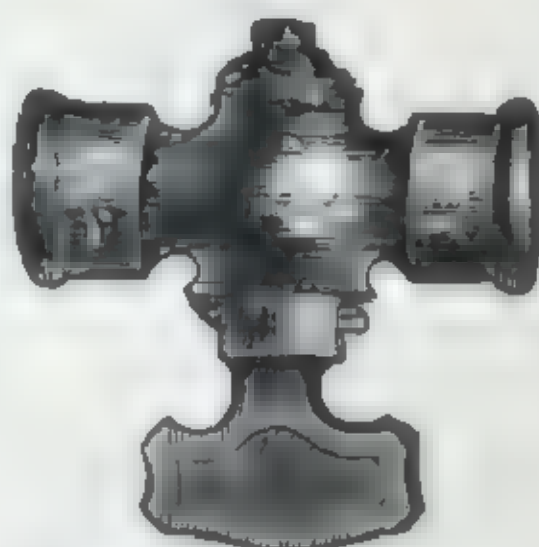
Swing Joint.



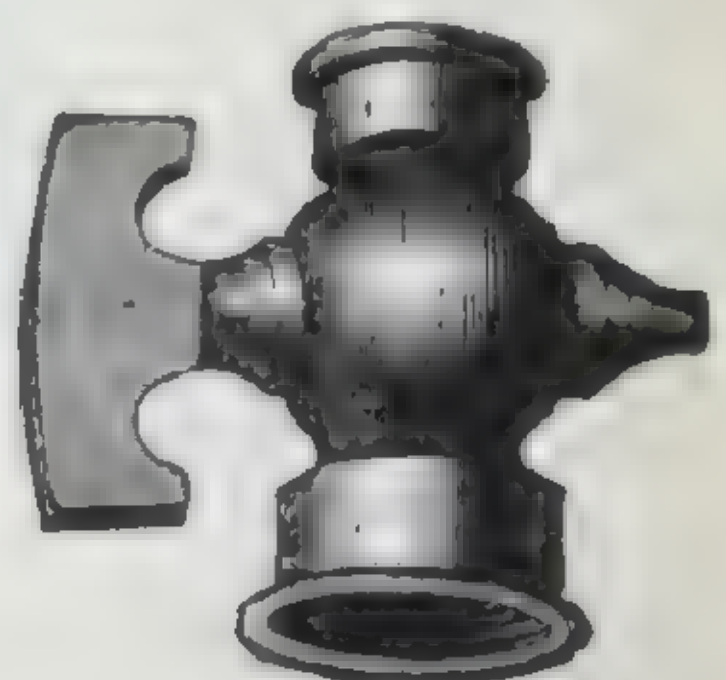
Universal Swing Joint.



Revolving Cock.



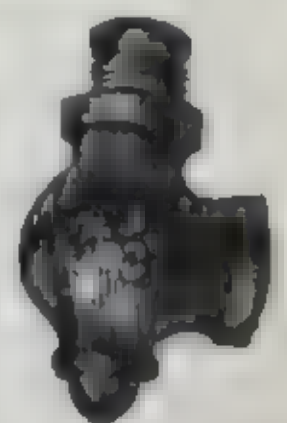
Straight Cock.



Lamp Cock.

		1/2 in.	3/4 in.	1 in.	1 1/4 in.	1 1/2 in.
Double Pendant Cocks, per doz.	7 00	8 00	9 70	9 70	9 75	10 00
Single " "		4 40	5 30	5 40	5 40	
Elbow Burner " "	4 70	5 40		5 80		
Bracket Swing " "				7 40	8 10	
Pillar " "	3 80	4 70		5 40		
Swing Joints, " "	4 40	4 70	4 70	5 00	5 00	6 10
Universal Joints, " "	7 40	7 40	7 90	7 90	7 90	8 60
Side and Straight Nozzles, " "	1 10	1 70		2 00		
Revolving Cocks " "		7 50	7 50	8 00	8 00	
Straight Cocks, " "	3 90	4 40	4 50	5 00	5 00	5 40
Lamp Cocks, per doz.		4 90	5 80	6 80	6 80	

Brass Burners, per doz. 30c. Iron Burners, per doz. 30c. Lava-tip Burners, per doz. 50c.



Side Nozzle.



Straight Nozzle.

BRACKETS, PENDANTS, CHANDELIERS, &c.

A Variety of Styles at Manufacturers' Prices.

Extra Heavy Brass Fittings.

Extra Heavy Fittings, especially for Factory use, made with great care, and with special view to strength in the plugs, necks, and parts usually weak in fittings.

[illegible]

BURNER CUPS.

Price, per dozen,	30 Cents.
-------------------	-----------

CLOBE HOLDERS.

Price, per dozen,	67 cents.
-------------------	-----------

CEILING PLATES.

Size,	2	3	4	5	6
Price, per dozen,	1 38	1 55	3 13	4 63	7 75

BRACKET BACKS.

Size	2 1/2	3	4
Price, per dozen,	70	1 00	2 50

ARCAND BURNERS, With Shade and Chimney.

Price, each,	1 75
------------------------	------

RUBBER PACKINGS.

Gum Packing, with cloth insertion, or cloth on either or both sides,					
$\frac{1}{16}$ inch thick	1 ply, per lb.	\$0 60	$\frac{1}{8}$ inch thick	2 ply, per lb.	\$0 55
	2 ply, "	0 63		3 ply, "	0 58
	3 ply, "	0 66		4 ply, "	0 61
$\frac{1}{8}$ inch thick	1 ply, "	0 55	$\frac{3}{16}$ inch thick	3 ply, "	0 55
	2 ply, "	0 58		4 ply, "	0 58
	3 ply, "	0 61	$\frac{1}{4}$ inch thick	4 ply, "	0 55
One ply of cloth to every $\frac{1}{16}$ of an inch thickness.					
Three cents per pound additional for each extra ply of cloth.					
Fibrous Gaskets or Rings, $\frac{1}{16}$ of an inch thick or less					
			per lb.	\$0 90	
			more.	"	0 80
The same with cloth insertion, $\frac{1}{16}$ of an inch thick or less					
				"	1 25
			more.	"	1 00
Pure Sheet Packing or Valve Gum					
				"	1 40
Pure Valves, Gaskets and Rings					
				"	1 50
Round and Square Piston Packing					
				"	85
Square Piston Packing, with elastic back					
				"	1 00
Tuck's Packing					
				"	85

RUBBER HOSE.

Internal Diameter		1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	4
Two ply, per foot	20	25	33	42	50	58	66	75	83	92	1 32
Three, "	25	30	40	50	60	70	80	90	1 00	1 10	1 60
Four, "	30	37	50	62	71	87	1 00	1 12	1 25	1 37	2 00

Linen Hose, Rubber lined, from 1 to 8 inch diameter.

WHITE RUBBER TUBING.

Internal Diameter		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	4
Plain, per foot		8	12	16	18	20	25	30	35	45			
Cloth Insertion		10	14	18	20	23	28	33	38	50			

SUCTION HOSE.

Internal Diameter	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	4	4 $\frac{1}{4}$	5	5 $\frac{1}{4}$	6	6 $\frac{1}{4}$	7	7 $\frac{1}{4}$	8	9	10
Price, per foot	\$1 10	\$1 15	\$1 20	\$1 25	\$1 30	\$1 35	\$1 40	\$1 45	\$1 50	\$1 55	\$1 60	\$1 65	\$1 70	\$1 75	\$1 80	\$1 85	\$1 90	\$1 95	\$2 00	\$2 05

STEAM HOSE.

Internal Diameter		$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$
Three ply, For 20 lbs Steam or less.	Price, per foot,	45	54	71	90	1 07	1 24	1 41	1 74
Four, "	"	54	71	88	1 10	1 31	1 52	2 14	2 18
Five, "	"	68	89	1 10	1 38	1 64	1 90	2 18	2 73
Six, "	"	81	1 07	1 32	1 65	1 96	2 28	2 61	3 27

Winding with Marline, 10 per cent. extra.

EXTRA HEAVY BREWERS' HOSE.

Internal Diameter		$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{4}$
Four ply, per foot		51	67	83	1 25	1 45	1 66	2 08
3 or 6 ply, 25 per cent. for each additional ply. This is also a good Steam Hose.								

SAFETY LINEN HOSE.

Internal Diameter		1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{4}$, in.
Linen Hose	per foot	14	14	16	18	23
" Rubber Lined	"	28	30	35	42	50
						60

This Hose is highly recommended by Insurance Companies as a protection from FIRE. Made of linen and woven seamless, it is strong, light and cheap enough to be in every factory, hotel, steamboat and public building. We furnish it with or without couplings and pipe to fit.

The entire expense of furnishing a large building with our Safety Hose may be saved by the reduced cost of insurance.

BEST OAK-TANNED LEATHER BELTING.

Width	1	1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12	13	14	15	16	17	18
per foot	09	15	21	27	33	39	45	51	57	63	69	81	93	1 05	1 17	1 29	1 41	1 53	1 65	1 80	1 94	2 10	2 26
Double Belts twice the price of single.												Belts up to 48 inches wide furnished.											
Round Belts.	1 in. 5c.	1½ in. 9c.	2 in. 12c.	2½ in. 16c.	3 in. 20c.	3½ in. 25c.	4 in. 30c.	4½ in. 38c.	5 in. 45c.	5½ in. 53c.	6 in. 53c.	per foot.											

SCOTCH GLASS TUBES—For Water Gauges.

Length	10	11	12	13	14	15	16	17	18	19	20	22	24	30	36 in.								
1/2 inch Outside Diameter.....	40	40	45	45	50	55	60	65	0	70	0	75	0	80	0	90	1	00	1	35	1	70	
" " ".....	40	40	45	45	50	55	60	65	0	70	0	75	0	80	0	90	1	00	1	35	1	70	
" " ".....					55	60	60	65	70	0	75	0	80	0	85	0	95	1	05	1	50	2	00
" " ".....						70	75	80	85	0	90	0	95	1	00	1	25	1	50	2	00	2	50
" " ".....							90	95	1	00	1	10	1	25	1	50	2	00	2	60	3	25	

Rubber Washers for same, 40 cents per dozen.

HAIR AND WOOL FELTING.

	PLAIN HAIR.					WITH WOOL BACK.				
Thickness	1	2	4	1	1½ in.	1	1	1	2 in.	
Price per square foot	6½	2	8	9½	16	18	20	22	25	

Hair Felt with Canvas Back, same price as with Wool Back.

Asbestos Packing and Covering for Boilers, Pipes, etc.

Boilers, Tanks, Piping, etc., covered with either of the above materials in the best manner and at lowest rates.

COTTON WASTE.

No. 1 Cop	per lb.	12c.	No. 1 Colored	per lb.	9c.
" " by the bale	"	10c.	" " by the bale	"	8c.

RUBBER BELTING.

Width	1	1½	1½	2	2½	3	3½	4	4½	5	6	7	8	9	10	11	12	13	14	15	16	18	20 in.	
2 ply, per foot	7	9	11	15	18	22	26	30																
3 ply, " 				17	22	26	30	34	39	43	52	60	70	80	90	1 00	1 08	1 18	1 28	1 38	1 50	1 70	1 90	
4 ply, " 				21	26	31	37	42	47	52	62	73	84	95	1 07	1 18	1 30	1 42	1 54	1 66	1 78	2 02	2 26	

Thicker and wider Belts furnished to order.

ASBESTOS PACKING.

Steam Rope Packing	per lb.	0 50	Sheating (Rolls)	0 20
Wick Packing	"	0 50	Gaskets, Regular sizes	0 60
Mill Board (Sheets)	"	0 20	Balls for Packing Valves, etc.,	each 0 15

STEAM PACKINGS.

Eagle Packing	per lb.	\$0 25	Phenix Packing. Green Core	1 00, per lb.
Selden's "	"	0 50	Hemp Core	60c. "
Hemp "	Italian 25c. Russian		Cotton "	" \$0 35
" "	20c. American 16c.		Lampwick "	Balls, 6c. each.
" "	Fine Flax.	0 38	Usudurian "	10 lbs. bale....
Soapstone "	"	0 20	"	" 0 80
Empire "	"	1 25	Jenkins "	" 0 80
American "	"	1 00	Square Flax Packing	....

CHRISTOFFEL'S TUBE BRUSHES.

Size of Tube	1 to 2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	3 ³ / ₄	4 in.	over.
Price, Eliptic	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	1 25 per in.
" Coil..	1 10	1 20	1 30	1 40	1 50	1 75	1 75	1 90	2 00	0 75 ..

ELASTIC TUBE SCRAPERS.

Size of Tube	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	3 ³ / ₄	4	4 ¹ / ₂	5	6
Price.....	1 25	1 50	1 75	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	4 50	5 00	6 00

NATIONAL TUBE SCRAPERS.

Size of Tube.	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	3 ³ / ₄	4	4 ¹ / ₂	5	6
Price	2 00	2 00	2 00	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	4 50	5 00	6 00

BOILER TUBE BRUSHES.

Size of Tube	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	4 in.
Whalebone	0 75	0 75	0 80	0 90	1 00	1 10	1 25	1 40	1 50	1 75	2 00
Steel Wire	1 00	1 00	1 10	1 25	1 40	1 50	1 60	1 75	2 00	2 25	2 50

DUDGEON'S TUBE EXPANDERS.

1	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	4	4 ¹ / ₂	5	6	7 in.
\$20	20	20	25	30	35	42	48	55	60	70	85	100	120	130	180

PROSSER'S TUBE EXPANDERS.

Size	1	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	4	4 ¹ / ₂	5	6	7 in.
Spring	\$8	8	9	11	12	13	15	18	22	26	30	33	37	42	60	75
Guide Ring		11	12	13	15	18	22	26	30	33	37	45	52	56	75	100

JACK SCREWS.

Length	6	8	10	12	14	16	20	24 in.
Diameter of Screw, 1 ¹ / ₄	2 50	3 00						
" " 1 ¹ / ₂	3 00	3 50	3 75	4 00				
" " 1 ³ / ₄	3 25	3 75	4 00	4 50	4 75	5 90		
" " 2	4 00	4 25	4 75	5 25	6 00	7 00	8 00	10 00
" " 2 ¹ / ₄		6 50	7 00	7 50	8 00	9 00	10 00	12 00
" " 2 ¹ / ₂		7 50	8 00	8 50	9 00	9 50	11 00	13 00

DUDGEON'S HYDRAULIC JACKS, at Manufacturers' Prices.

DIFFERENTIAL PULLEY BLOCKS.

To Raise	1 ¹ / ₄ Ton.	1 ¹ / ₂ T.	1 T.	1 ¹ / ₂ T.	2 T.	3 T.	4 T.
Price	22 50	25 00	30 00	40 00	50 00	75 00	..

OILERS.

Number	0	1	2	3	4	5	6
Brass, per dozen	3 00	3 50	4 00	5 00	6 00	7 00	9 00
Zinc	2 00	2 25	2 75	3 25	4 00	4 75	5 00

MALLEABLE IRON, \$6.00 per doz. COPPER OILERS.

OILER SETS—For Engine Room.

No. 1. 5 Pieces all Brass, with Tray, comprising 3 Oilers, with Spring Bottom, 2 Cans all set in an oval Tray	\$16 00
No. 2. 3 Pieces, with Tray, comprising 2 Oilers, with Spring Bottom, 1 Can set in an oval Tray	12 00

MISCELLANEOUS.

EMERY PAPER.

No. 00 to 1 1/2 and assorted, per Ream,	\$6.00
" 2	7.00
" 2 1/2	8.00
" 3	11.00

EMERY CLOTH.

All numbers per Ream, . . .	\$2.00
American Standard Numbers	
00, 0, 100, 1, 1 1/2, 2, 2 1/2, 3	

GROUND AND FLOUR EMERY.

EMERY AND TANITE WHEELS for Grinding and Polishing.
ROTTEN STONE. GROUND GLASS. PUMICE STONE.
PLUMBAGO. BORAX, Etc.

RED LEAD, Dry, — per lb.,	10c.
WHITE " in Oil, — "	12c.
METALLIC PAINT, Dry, "	15c.

BABBIT METAL.

No. 1, 15 cts. per pound.	No. 2, 20 cts. per lb.
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BELT HOOKS.

No.	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10
Per 1000	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25

BELT LACINGS.

Cut, Width	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10
Per 100 feet	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50
Full Sides,	per 100 feet 85 cts.																		

BELT COUPLINGS.

Diameter of Belt	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	11
Price per Dozen,	3.25	2.25	2.25	2.75	3.25	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25

Belt Patches, all sizes and kinds.

Packing Hooks and Screws,	50 cts. each.
---------------------------	---------------

WIRE.

Steel, Iron, Tinned, Galvanized, Brass and Copper, at market prices.
Brass and Iron Wire Cloth, Wire Rope, Etc.

OILS.

Machinery, Cylinder and Lubricating — at market rates.
Tallow,

OIL TANKS, CABINETS, CANS AND OILERS.

Every description of Engineers' Supplies, in stock or furnished at short notice.

I ERECT APPARATUS FOR Warming and Ventilating Buildings

Of every Description,—Public and Private,

upon the most approved and scientific plans, by High or Low Pressure Steam
or Hot Water, by Direct or Indirect Radiation.

FACTORIES, MILLS, &c., heated by means of "Exhaust Steam."

STEAM DRYING ROOMS for Mills, Laundries, Hotels, etc.,
fitted up.

STEAM COOKING APPARATUS for Hotels and Restaurants, and
PIPE WORK IN GENERAL.

Plans, Specifications and Estimates furnished.

I contract also, and make Specifications and Estimates for furnishing
and erecting

**BOILERS, TANKS, STILLs, ENGINES, PUMPS, SHAFTING,
HANGERS, PULLIES, ETC., and MACHINERY IN GENERAL.**

Repairs made to Boilers Engines. Pumps, Etc.

I furnish at Market Rates:

Boiler and Tank Iron. Bar, Angle and Sheet Iron,
English and American Steel, Iron and Steel Rails,
Rivets, Spikes, Bolts, Nuts, &c. Iron and Brass Castings.
Iron and Steel Forgings. Grate & Bearing Bars.
Shafting, Pulleys, Hangers, Etc., Etc.

PRICE FOR PIPE CUTTING. (ONE CUT AND THREAD.)

Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Price	5	5	6	6	7	8	9	10	14	20	30
Size	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12 in.	
Price	40	40	50	60	90	110	120	200	260	300	

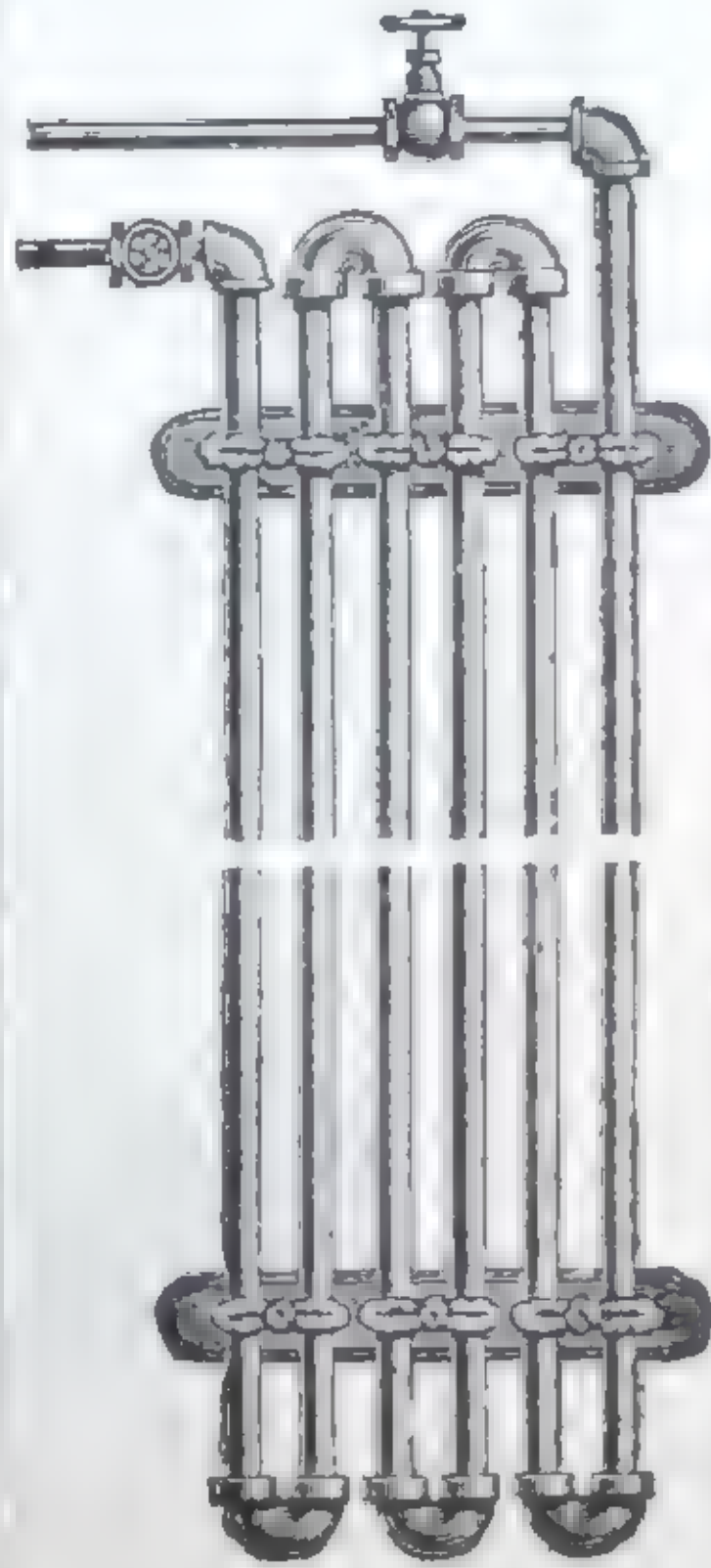


These Radiators can be made any desired length, height and width.

BOX COIL RADIATORS.

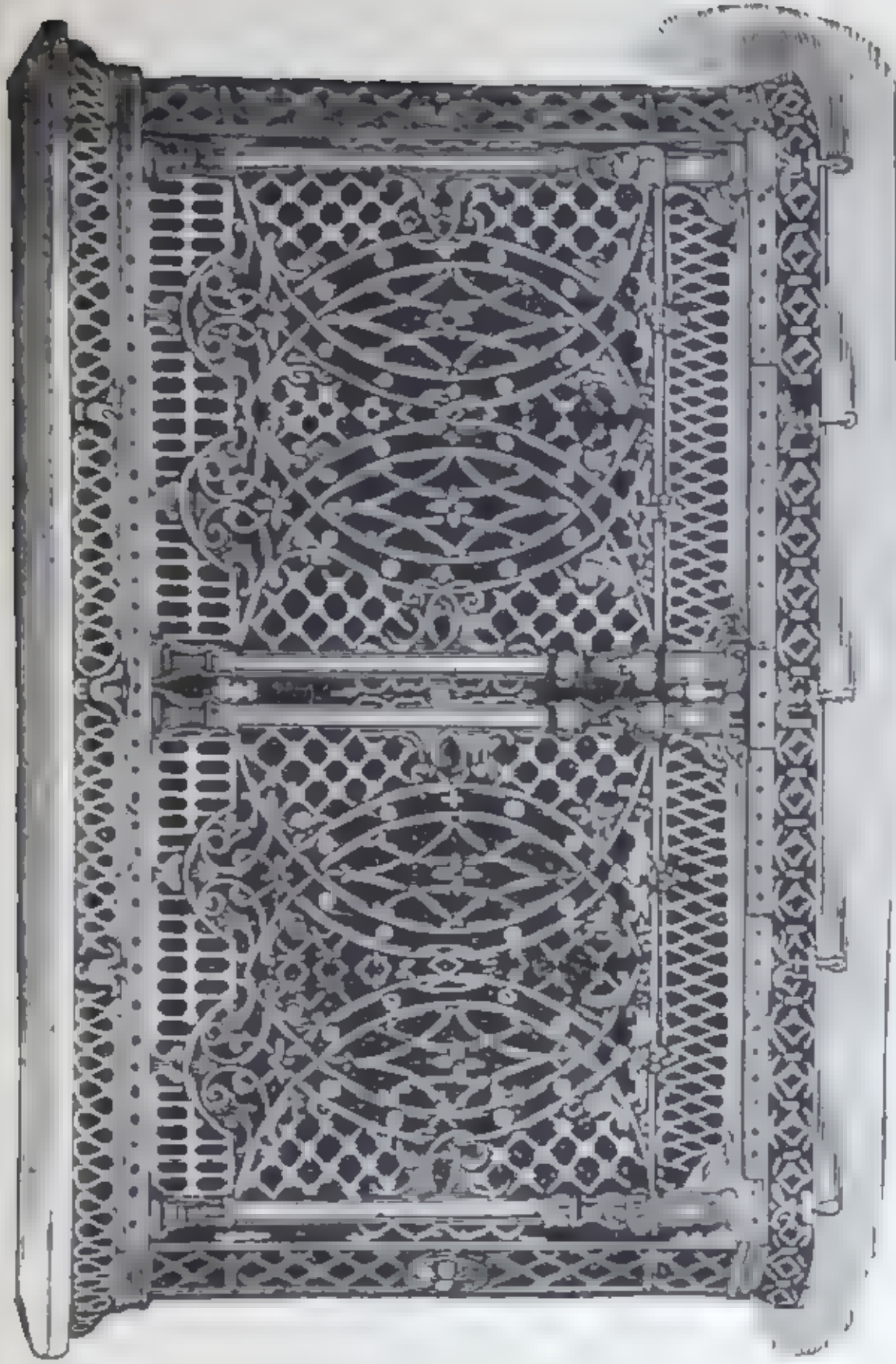
Length of Coil.	3	3 1/2	4	5	6	7	8	9	10 ft.
1/2 inch Pipe per foot.	25	23	22	20	18	17	16	16	15
1 " " "	31	28	26	25	24	23	22	20	20

Larger Sizes of Pipe at special prices.

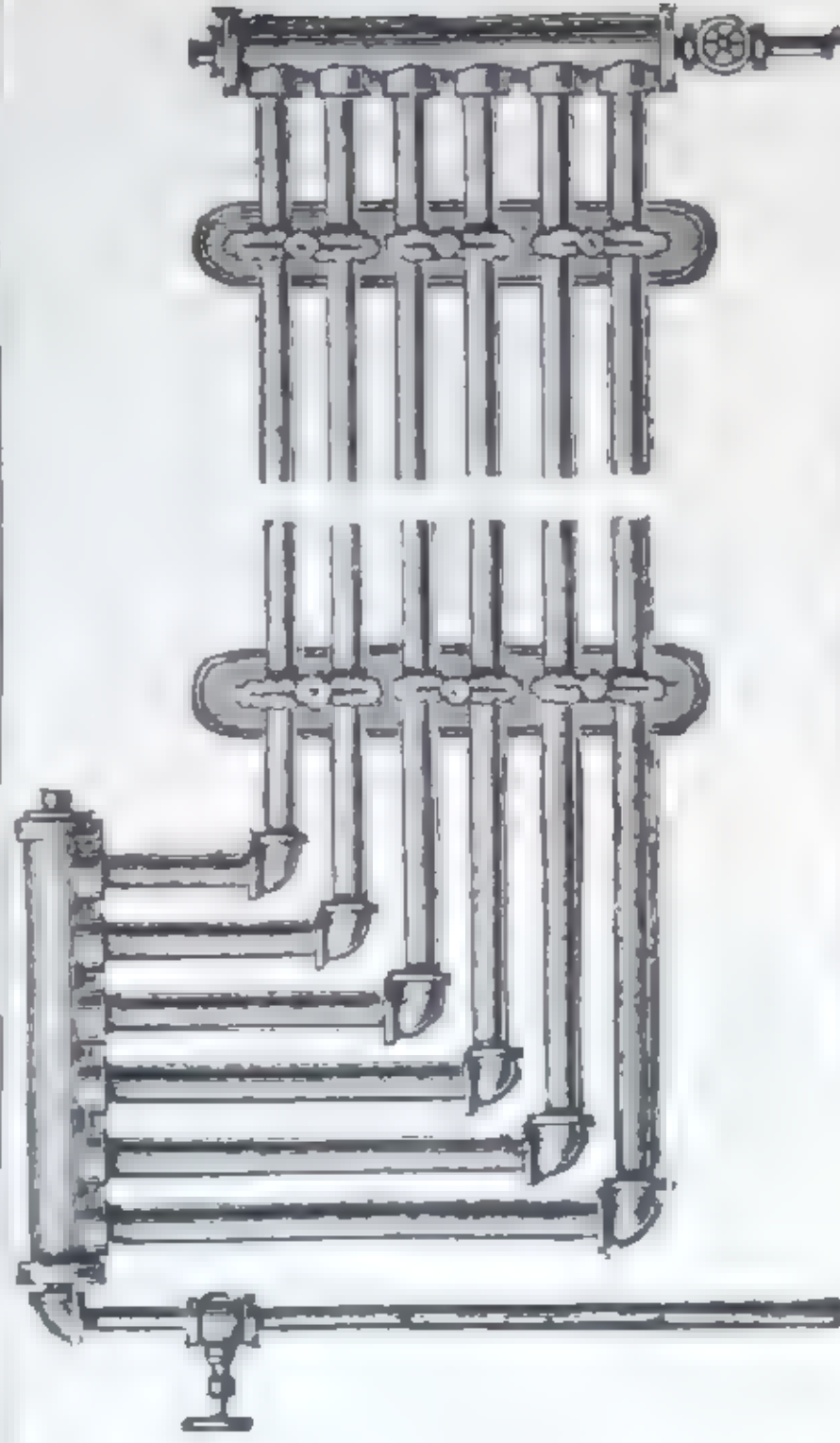


COIL RADIATORS.

Any size pipe, length and height. Special prices.



ORNAMENTAL IRON SCREEN,
For covering Coil Radiators, Bronzed or japanned, with Open Work or Marble Top. Price per square foot



CIRCULATION COIL.
Any size pipe, length and height. Special prices.

WROUGHT IRON VERTICAL TUBE RADIATORS.

Pattern No. 1. Single Row of Tubes.

No. of Tubes in length	4	8	12	16	20	24
Total Number of Tubes	4	8	12	16	20	24
Price for Plain	5 20	8 90	12 80	15 70	20 70	24 10
Price for Bronzed	5 60	7 75	14 00	17 30	22 70	26 50

Pattern No. 2. Two Rows of Tubes.

No. of Tubes in length	4	8	12	16	20	24
Total Number of Tubes	8	16	24	32	40	48
Price for Plain	9 30	16 80	23 80	30 20	38 20	46 50
Price for Bronzed	10 25	18 00	26 20	33 50	42 00	51 00

Pattern No. 3. Three Rows of Tubes.

No. of Tubes in length	4	8	12	16	20	24	28
Total No. of Tubes	12	24	36	48	60	72	84
Price for Plain	13 20	24 20	35 00	46 00	58 40	69 30	80 00
Price for Bronzed	14 00	26 00	37 50	50 00	63 00	74 00	85 00

Pattern No. 4. Four Rows of Tubes.

No. of Tubes in length	4	8	12	16	20	24	28	32
Total No. of Tubes	16	32	48	64	80	96	112	128
Price for Plain	18 00	32 80	47 80	62 60	78 00	93 00	106 00	121 00
Price for Bronzed	19 00	35 00	50 50	66 00	82 00	97 00	112 00	128 00

CIRCULAR RADIATORS.

No. of Tubes	1	2	3	4	5	6	7
No. of Tubes	18	30	54	72	102	130	160
Price for Plain	19 25	30 00	52 00	67 00	100 00	123 00	150 00
Price for Bronzed	21 00	32 50	56 00	74 00	110 00	135 00	160 00

CIRCULAR RADIATORS, in Halves, to encircle Columns.

No. of Tubes	58	80	102	130	160
Price for Plain	63 50	87 00	113 00	142 00	167 00
Price for Bronzed	68 00	93 00	120 00	150 00	177 00

Marble Tops Extra.

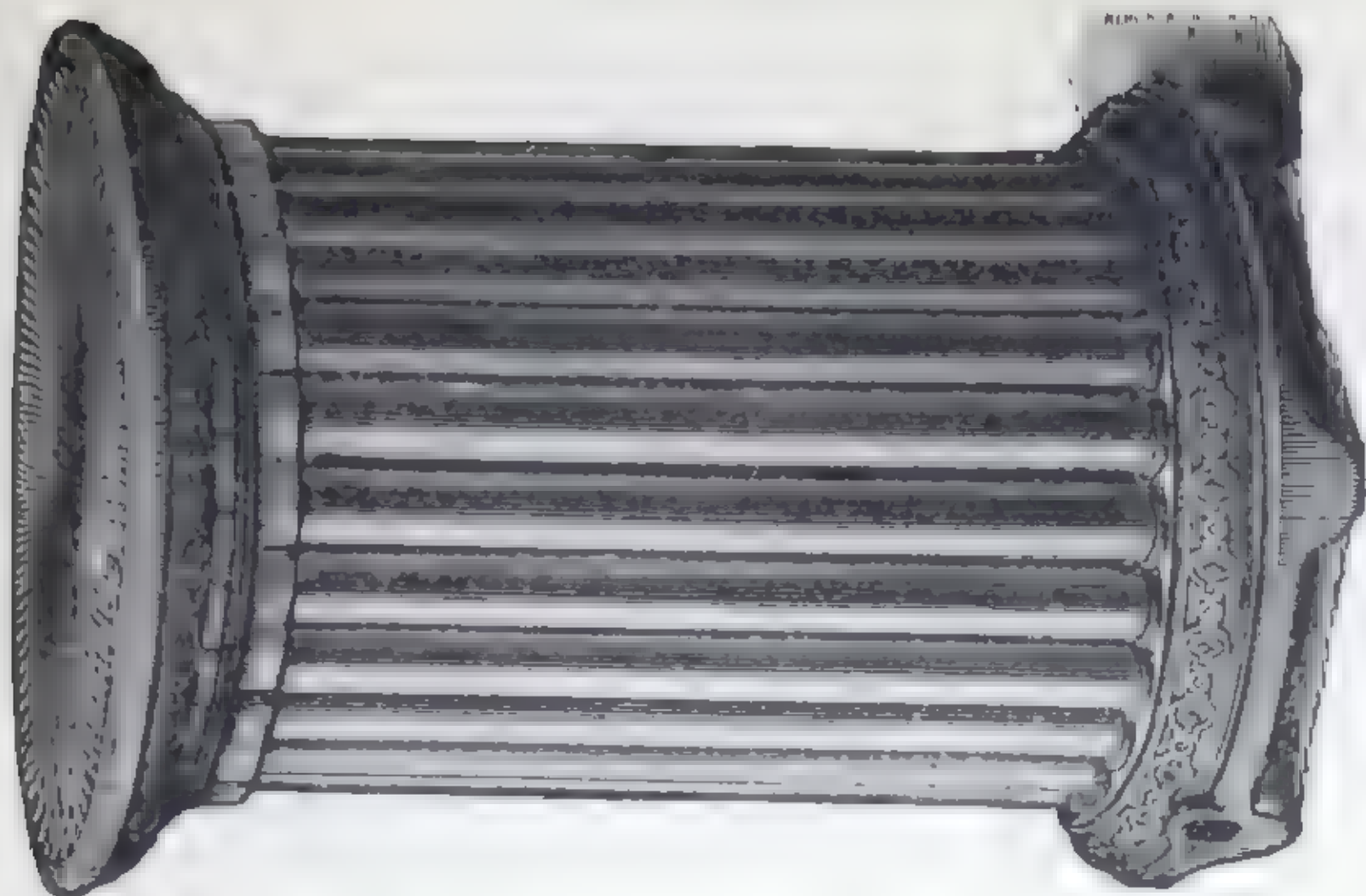
We make Special Prices per Tube for these Radiators,
according to quantity and sizes.



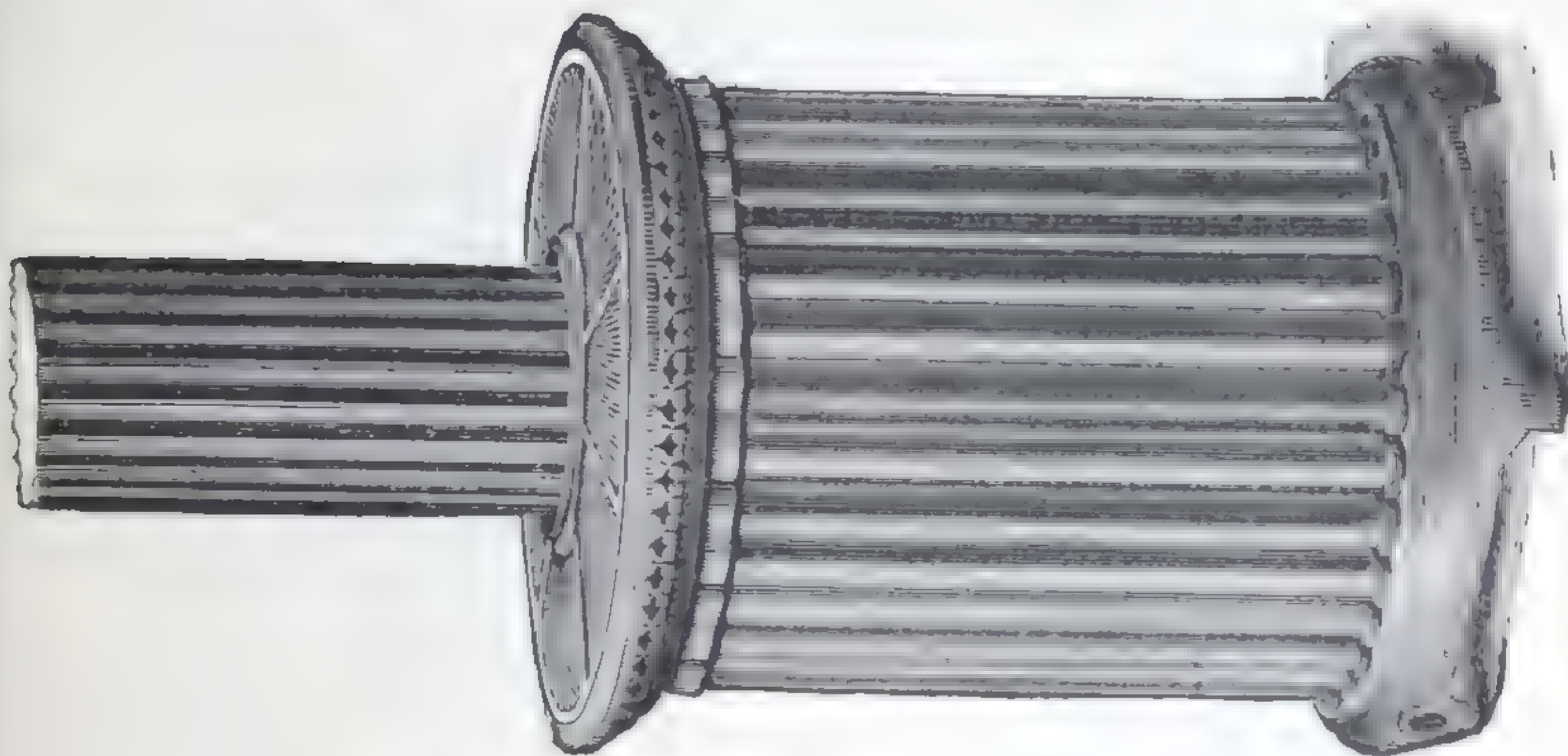
INDIRECT RADIATORS.

Price per Tube, any size

..... 50 cents.



Circular Radiator.



Column Radiator.



Rectangular Radiator.

BUNDY RADIATOR.

SINGLE ROW OF LOOPS.

Size.	Loops.	Total Length.	Total Width.	Heating Surface	Price, Plain.
1 X 3	3	13 inches.	6 inches.	9 sq. feet.	\$6 75
1 X 4	4	16 "	6 "	12 "	9 00
1 X 5	5	19 "	6 "	15 "	11 25
1 X 6	6	24 "	6 "	18 "	13 50
1 X 7	7	25 "	6 "	21 "	15 75
1 X 8	8	28 "	6 "	24 "	18 00
1 X 9	9	32 "	6 "	27 "	20 25
1 X 10	10	35 "	6 "	30 "	22 50
1 X 11	11	39 "	6 "	33 "	24 75
1 X 12	12	41 "	6 "	36 "	27 00
1 X 14	14	49 "	6 "	42 "	31 50
1 X 15	15	51 "	6 "	45 "	33 75
1 X 16	16	54 "	6 "	48 "	36 00
1 X 20	20	67 "	6 "	60 "	45 00
1 X 24	24	80 "	6 "	72 "	54 00

TWO ROWS OF LOOPS.

2 X 3	6	13 inches.	10 inches.	18 sq. feet.	\$13 50
2 X 4	8	16 "	10 "	24 "	18 00
2 X 5	10	20 "	10 "	30 "	22 50
2 X 6	12	23 "	10 "	36 "	27 00
2 X 7	14	26 "	10 "	42 "	31 50
2 X 8	16	29 "	10 "	48 "	36 00
2 X 9	18	32 "	10 "	54 "	40 50
2 X 10	20	35 "	10 "	60 "	45 00
2 X 11	22	38 "	10 "	66 "	49 50
2 X 12	24	42 "	10 "	72 "	54 00
2 X 14	28	49 "	10 "	84 "	63 00
2 X 15	30	51 "	10 "	90 "	67 50
2 X 16	32	54 "	10 "	96 "	72 00
2 X 20	40	67 "	10 "	120 "	90 00
2 X 24	48	80 "	10 "	144 "	108 00

THREE ROWS OF LOOPS.

3 X 3	9	13 inches.	14 inches.	27 sq. feet.	\$20 25
3 X 4	12	16 "	14 "	36 "	27 00
3 X 5	15	19 "	14 "	45 "	33 75
3 X 6	18	23 "	14 "	54 "	40 50
3 X 7	21	26 "	14 "	63 "	47 25
3 X 8	24	29 "	14 "	72 "	54 00
3 X 9	27	32 "	14 "	81 "	60 75
3 X 10	30	35 "	14 "	90 "	67 50
3 X 11	33	38 "	14 "	99 "	74 25
3 X 12	36	42 "	14 "	108 "	81 00
3 X 14	42	49 "	14 "	126 "	94 50
3 X 15	45	51 "	14 "	135 "	101 25

FOUR ROWS OF LOOPS.

4 X 4	16	20 inches.	18 inches.	72 sq. feet.	\$54 00
4 X 5	20	25 "	18 "	90 "	67 50
4 X 6	24	30 "	18 "	108 "	81 00
4 X 8	32	40 "	18 "	144 "	108 00

Loops.

CIRCULAR RADIATORS.

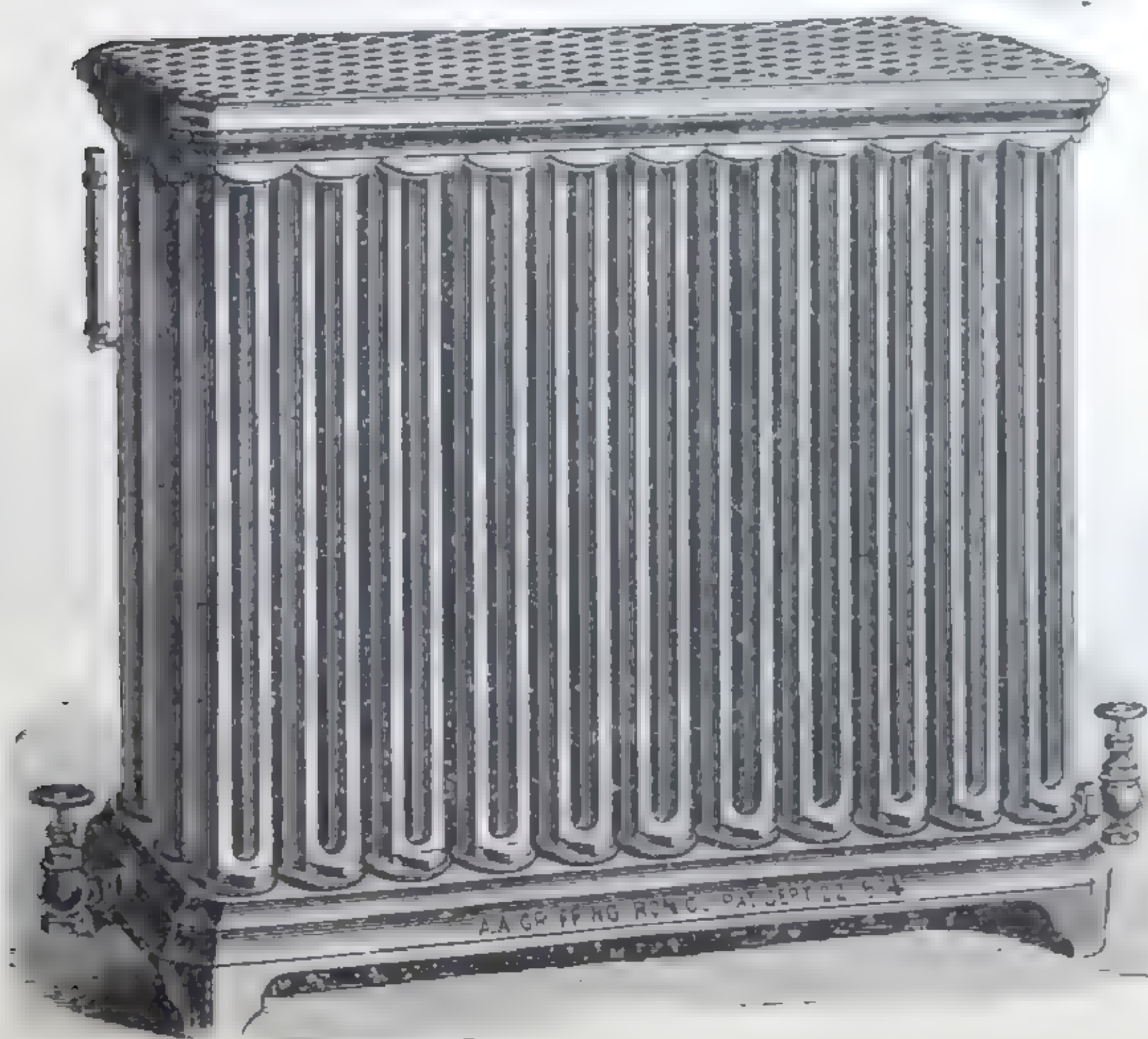
10 inches Outside Diameter	30 sq. feet.	\$22 50
12 "	45 "	33 75
14 "	60 "	45 00
16 "	75 "	56 25
18 "	90 "	67 50
20 "	105 "	78 75
22 "	120 "	90 00
24 "	135 "	101 25
26 "	150 "	112 50
28 "	165 "	123 75
30 "	180 "	135 00

COLUMN RADIATORS IN HALVES TO ENCIRCLE COLUMNS, Ten Cents per Loop extra.

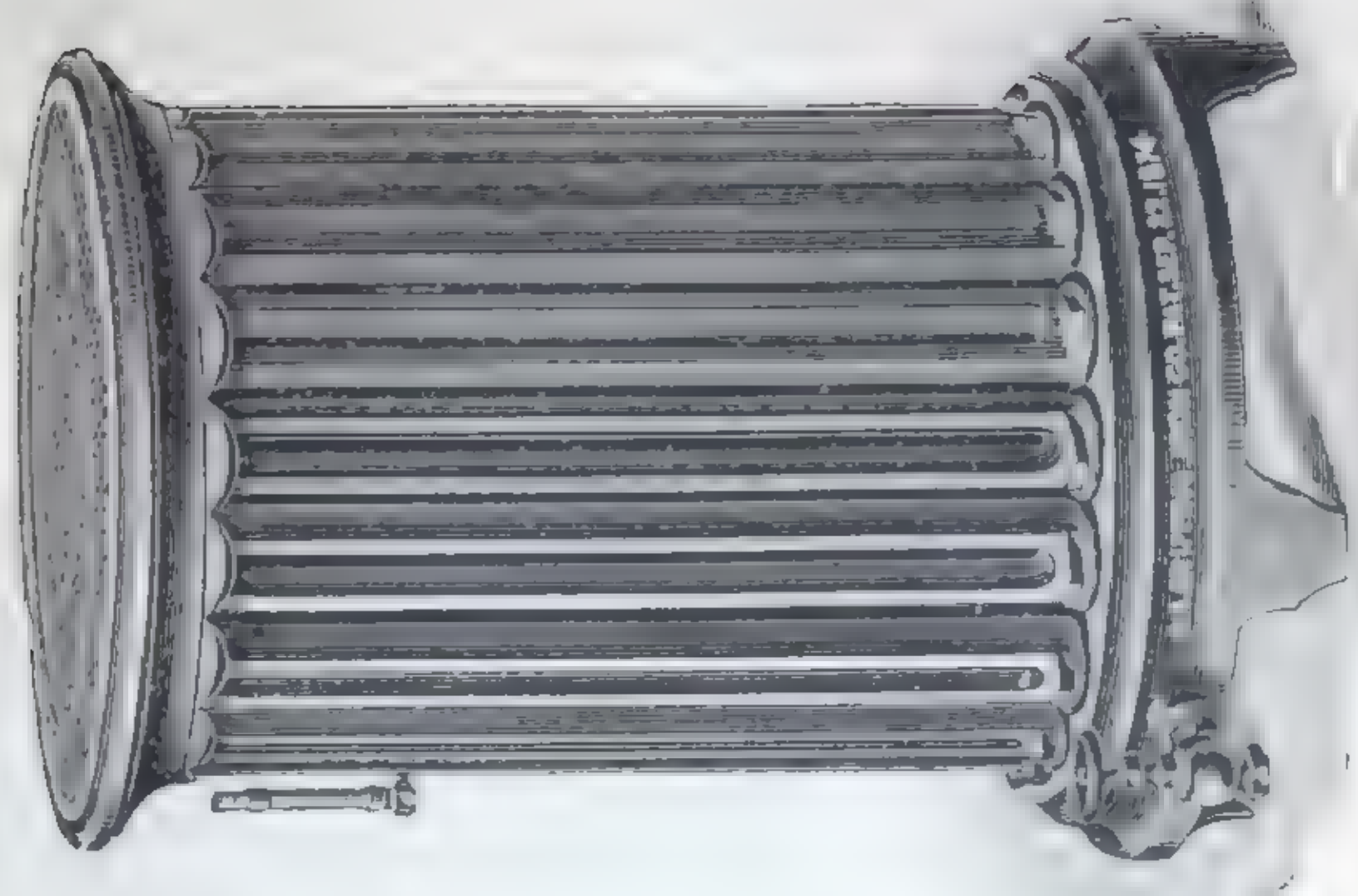
20 inches Outside Diameter	9 inches Inside dia.	75 sq. feet.	\$65 00
22 "	10 "	90 "	76 00
24 "	12 "	120 "	100 00



COLUMN.

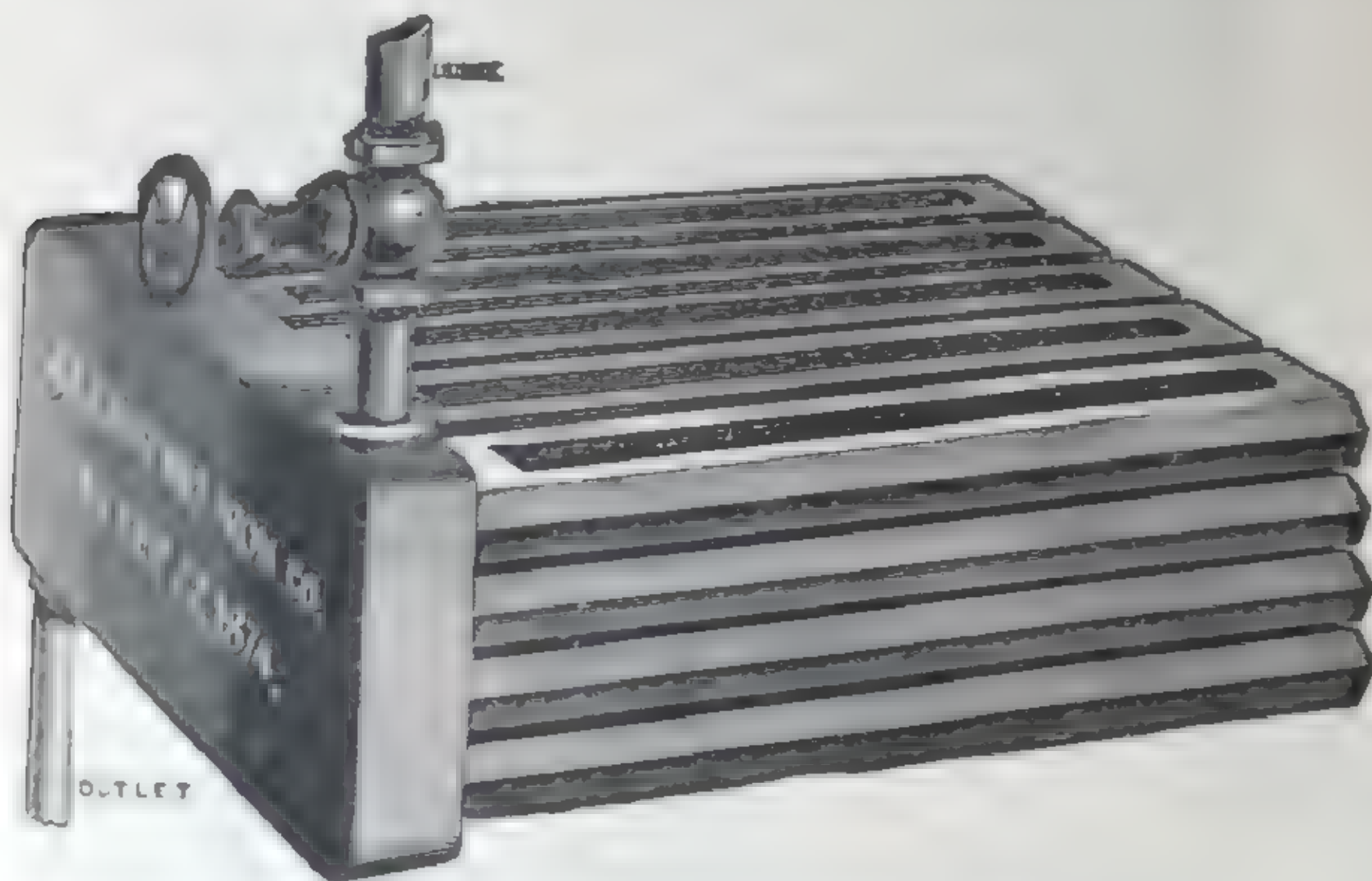


RECTANGULAR.



CIRCULAR.

THE BUNDY HORIZONTAL INDIRECT RADIATOR.

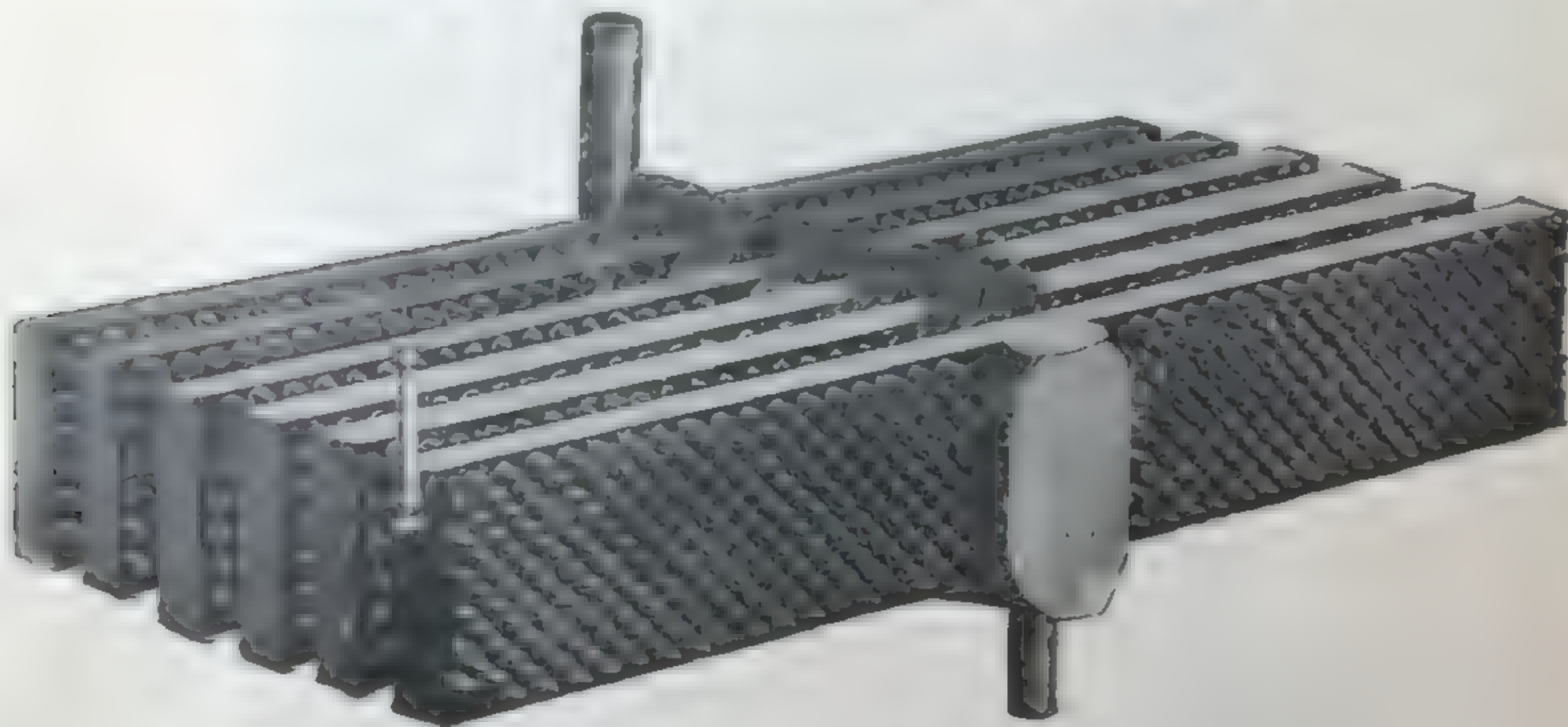


LIST OF HORIZONTAL INDIRECT RADIATORS.

Each Loop represents three feet of Heating Surface.

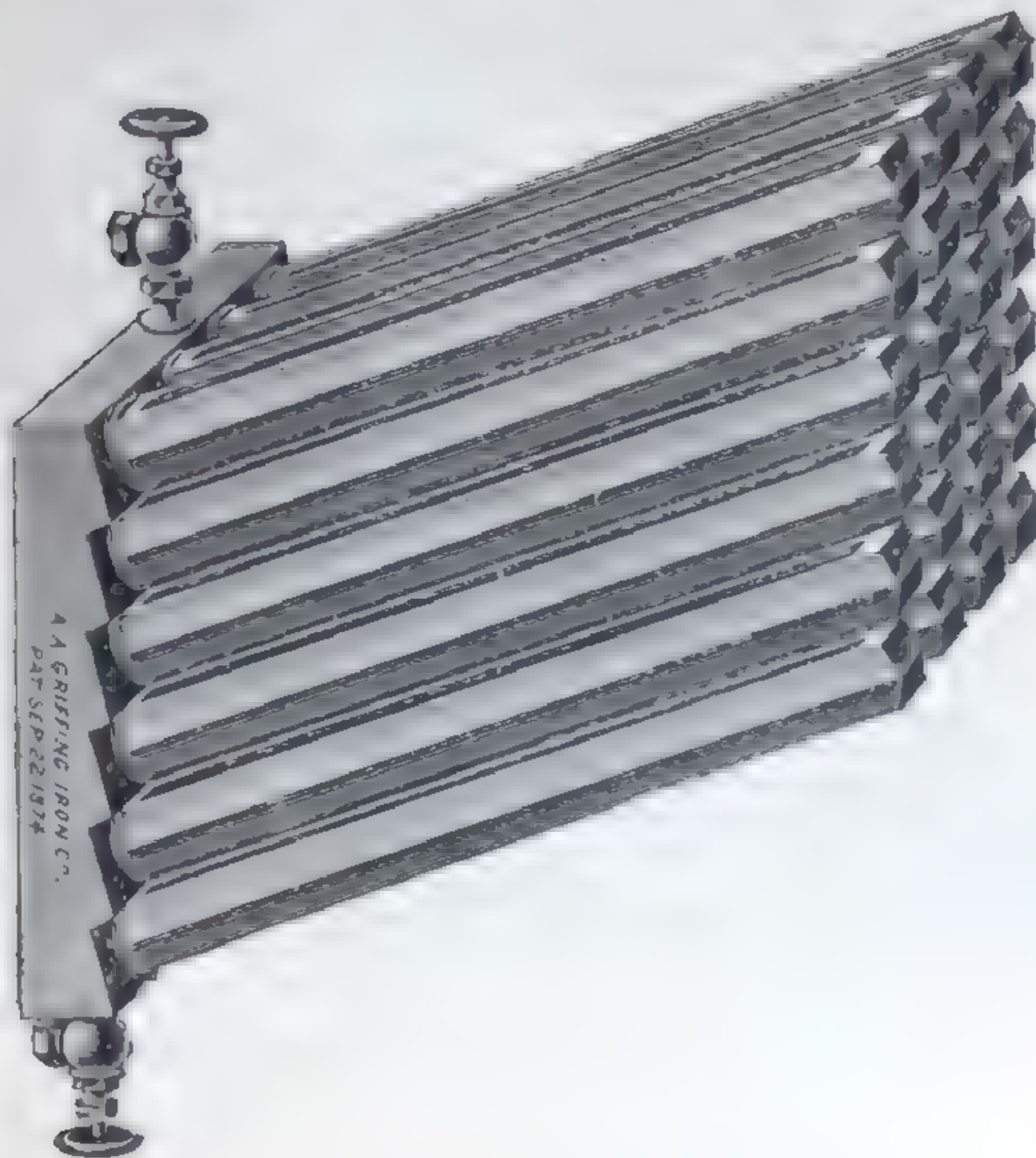
Size of Radiators	Number of Loops	Width of Radiators	Depth of Radiators	Length of Radiators	Feet of Heating Surface	Price, with Plain Loops
4 X 4	9	10 inches	9 inches	33 inches	27	18 23
4 X 4	12	15 "	9 "	33 "	36	24 30
4 X 5	12	12 "	12 "	33 "	36	24 30
4 X 4	16	15 "	12 "	33 "	48	32 40
4 X 5	20	17 "	12 "	33 "	60	40 50
4 X 6	24	20 "	12 "	33 "	72	48 60
4 X 7	28	22 "	12 "	33 "	84	56 70
4 X 8	32	25 "	12 "	33 "	96	64 80
4 X 9	36	28 "	12 "	33 "	108	72 90

GOLD'S PIN INDIRECT RADIATOR.



PRICES ON APPLICATION.

BUNDY ANGLE INDIRECT RADIATOR.



LIST OF INDIRECT ANGLE RADIATORS.

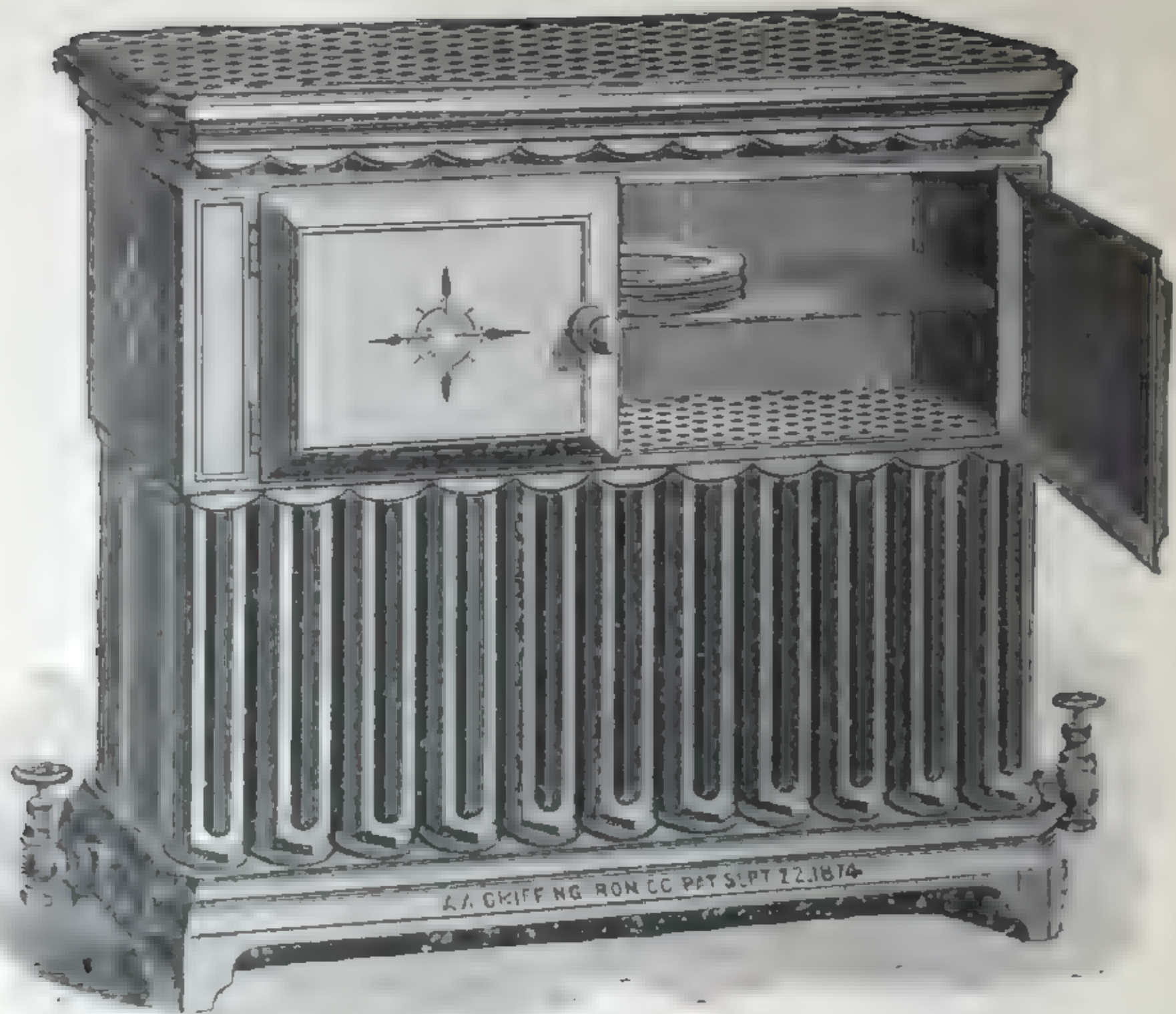
Each Loop represents three feet of Heating Surface.

Shape of Radiators.	Number of Loops.	Width of Radiators.	Depth of Radiators.	Length of Radiator.	Feet of Heating Surface.	Pipes with Four Loops.
3 x 3	9	10 1/2 inches	20 1/2 inches	33 inches.	27	18 00
3 x 4	12	15 1/2 "	20 1/2 "	33 "	36	25 00
4 x 4	16	13 1/2 "	25 "	33 "	48	33 00
4 x 5	20	15 1/2 "	25 "	33 "	60	42 00
4 x 6	24	20 "	25 "	33 "	72	50 40
5 x 5	25	16 1/2 "	28 "	33 "	75	52 00
5 x 6	30	20 "	28 "	33 "	90	63 00
6 x 6	36	20 "	31 "	33 "	108	75 60

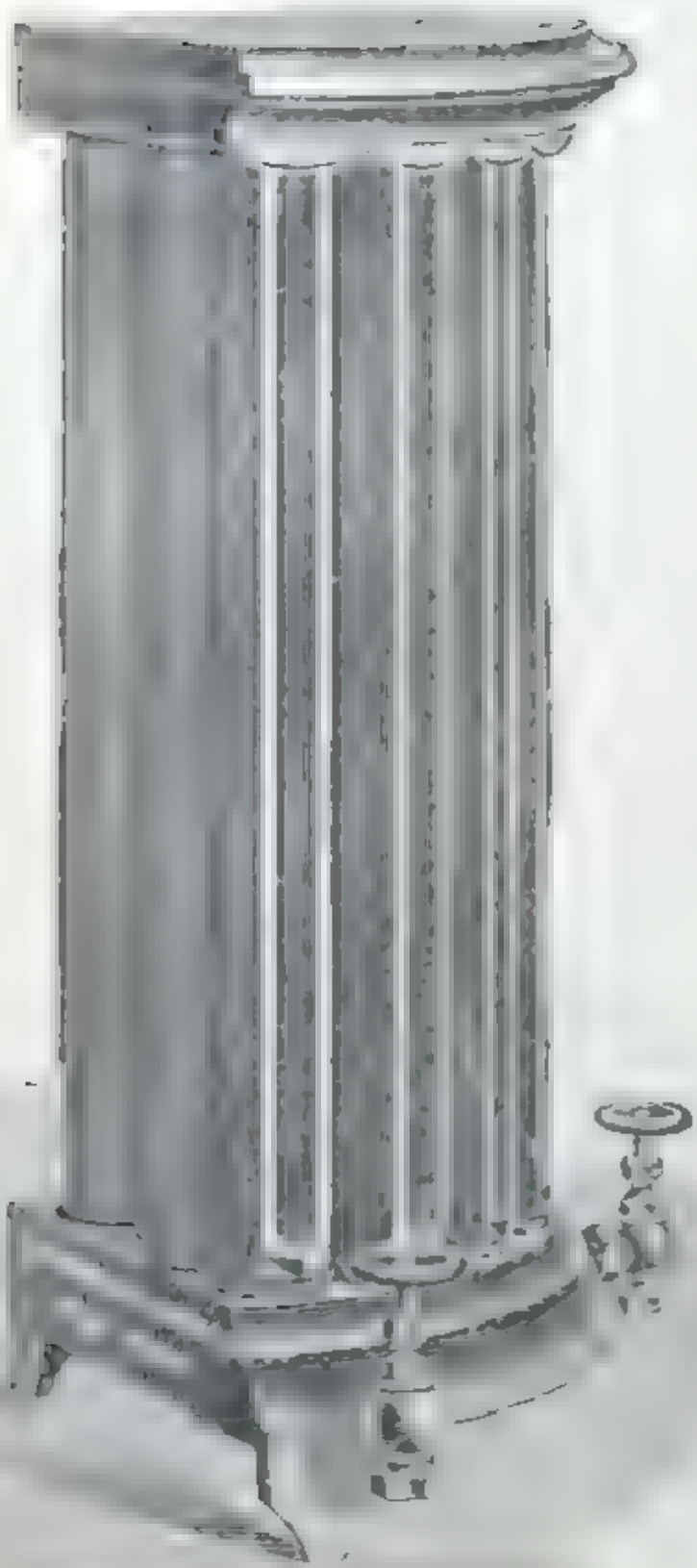
LIST OF PIN INDIRECT ANGLE RADIATORS.

Each Loop represents four feet of Heating Surface.

Shape of Radiators.	Number of Loops.	Width of Radiators.	Depth of Radiators.	Length of Radiators.	Feet of Heating Surface.	Pipes.
2 x 5	10	17 inches	17 inches	34 inches.	40	24 00
3 x 3	9	10 1/2 "	20 1/2 "	34 "	36	21 00
3 x 4	12	14 "	20 1/2 "	34 "	48	27 00
4 x 4	16	14 "	25 "	34 "	64	34 40
4 x 5	20	17 "	25 "	34 "	80	42 00
4 x 6	24	20 1/2 "	25 "	34 "	96	51 60



HOT CLOSET DINING RADIATOR,
Special Prices.



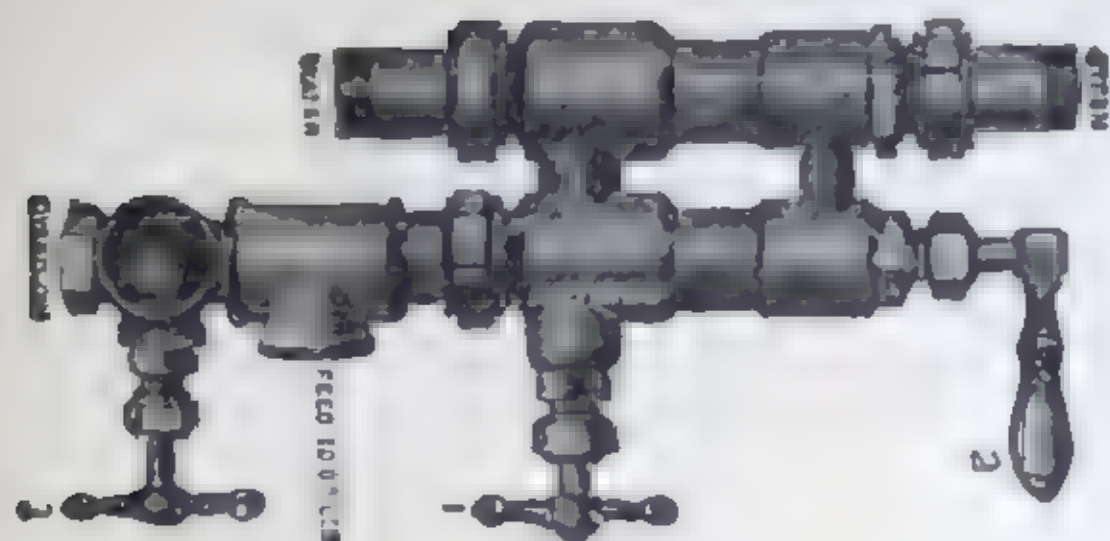
CORNER RADIATOR.
Special Prices.



HOT WATER RADIATOR.
Special Prices.

THE HANCOCK INSPIRATOR

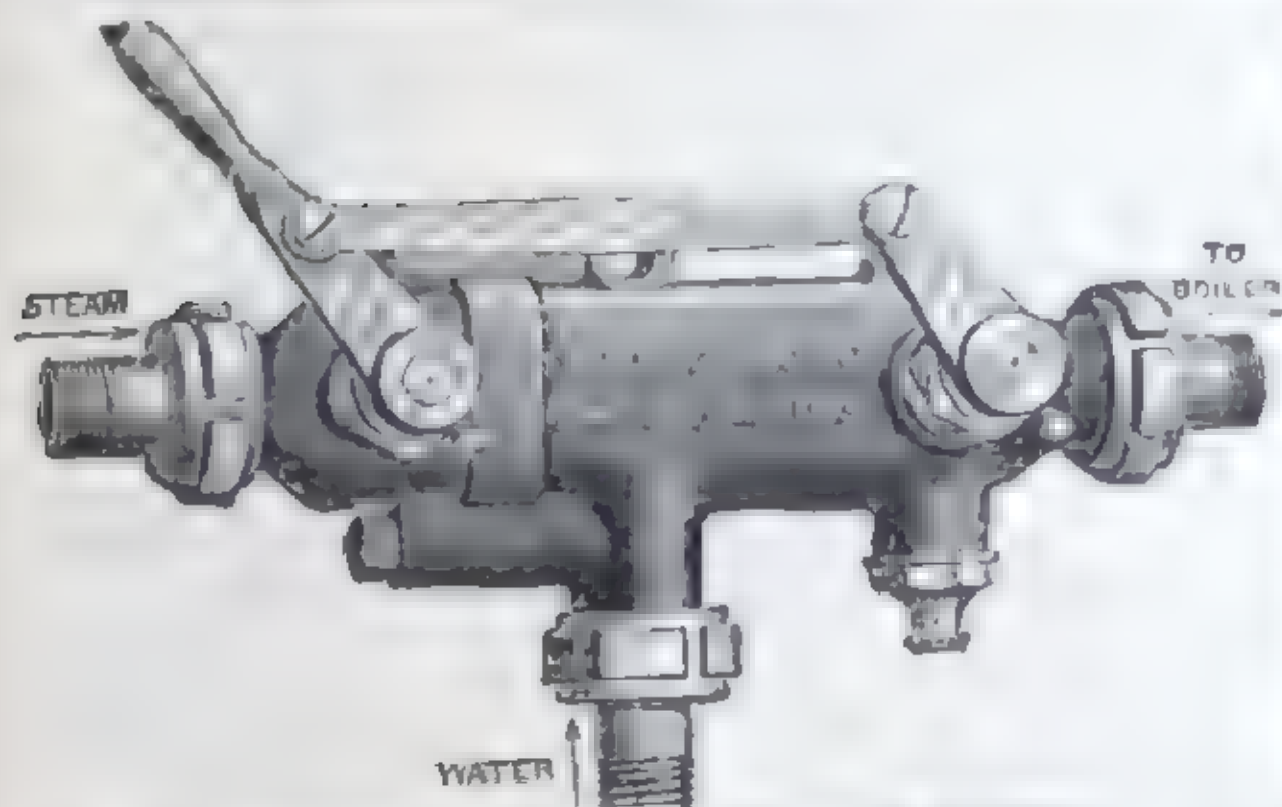
FOR FEEDING STATIONARY BOILERS.



No of Inspirator.	Size of Connections.		Gallons per hour, 60 lbs Pressure	Price
	Suction and Feed	Steam.		
No 7 1/2	3/4	3/4	60	\$16 00
" 8 1/2	1	1	85	18 00
" 10	1 1/4	1 1/4	120	20 00
" 12 1/2	1 1/2	1 1/2	220	25 00
" 15	1 3/4	1 3/4	300	30 00
" 17 1/2	2	2	300	40 00
" 20	2 1/4	2 1/4	510	45 00
" 25	2 1/2	2 1/2	700	55 00
" 30	3	3	900	60 00
" 35	3 1/4	3 1/4	1260	75 00
" 40	3 1/2	3 1/2	1740	90 00
" 45	4	4	2240	110 00
" 50	4 1/2	4 1/2	2820	125 00
			3480	150 00

KORTING DOUBLE TUBE INJECTOR.

Operated with One Handle. Feeds Hot Water to Boiler.

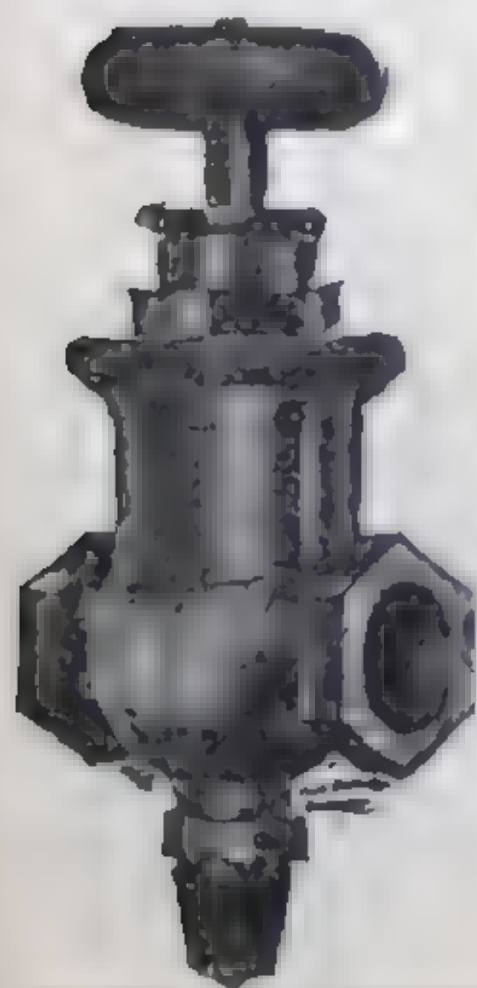


No of Injector.	Price of Injector	Horse Power.	Gallons per hour	Price of 1000	Price of 5000
No 1	\$24 00	1 to 12	100	1 00	5 00
" 2	28 00	20	150	1 50	7 50
" 3	32 00	40	200	2 00	10 00
" 4	40 00	50	400	3 00	15 00
" 5	50 00	75	600	4 00	20 00
" 6	65 00	85	800	5 00	25 00
" 7	85 00	120	1200	7 00	35 00
" 8	100 00	160	1500	8 00	40 00
" 9	120 00	200	2000	10 00	50 00
" 10	145 00	250	2500	12 00	60 00
" 12	205 00	400	3500	18 00	90 00

Printed instructions sent with each Injector.

CURTIS PRESSURE REGULATOR.

For STEAM, WATER, or AIR.

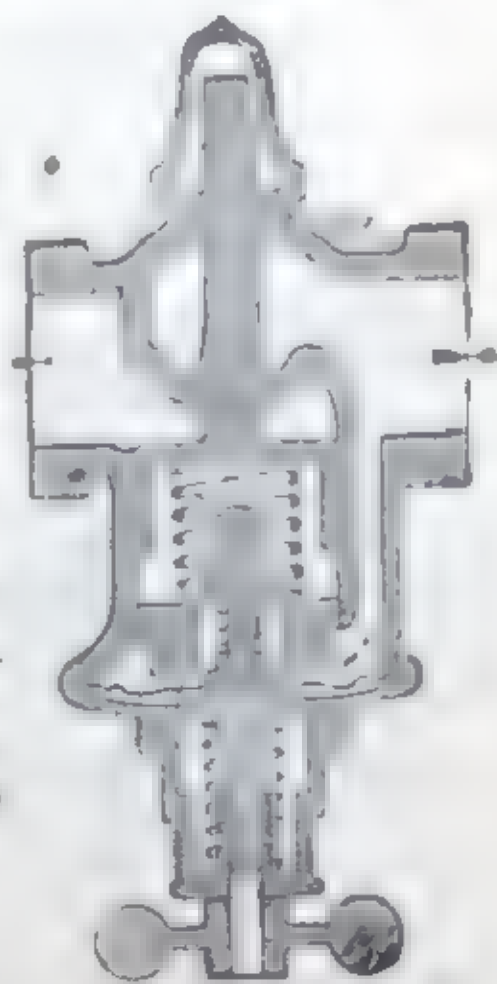


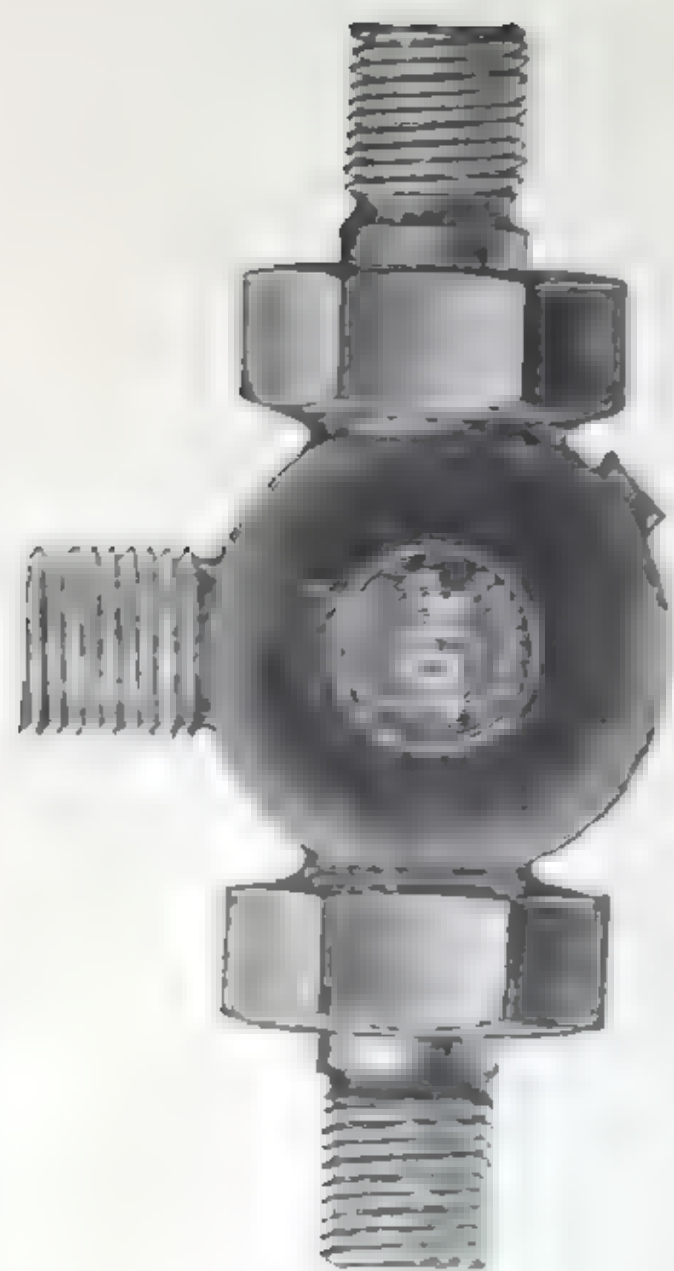
This Pressure Regulator will automatically control the pressure of *Steam, Water or Air*, at any point desired, regardless of the variation of the initial pressure. *Occupying no more space than any Globe Valve.*

This Regulator must not be confused with the ordinary Reduction Valves in the market, as its construction admits of creating positive action under all circumstances.

Lockup Attachment \$3.00 extra. Larger sizes made to order.

Size	Price	Size	Price	Size	Price
1 inch.	\$22 00	2 1/2 inch	\$57 00	6 inch.	\$180 00
1 1/4 "	28 00	3 "	72 00		
1 1/2 "	35 00	4 "	100 00		
2 "	44 00	5 "	135 00		



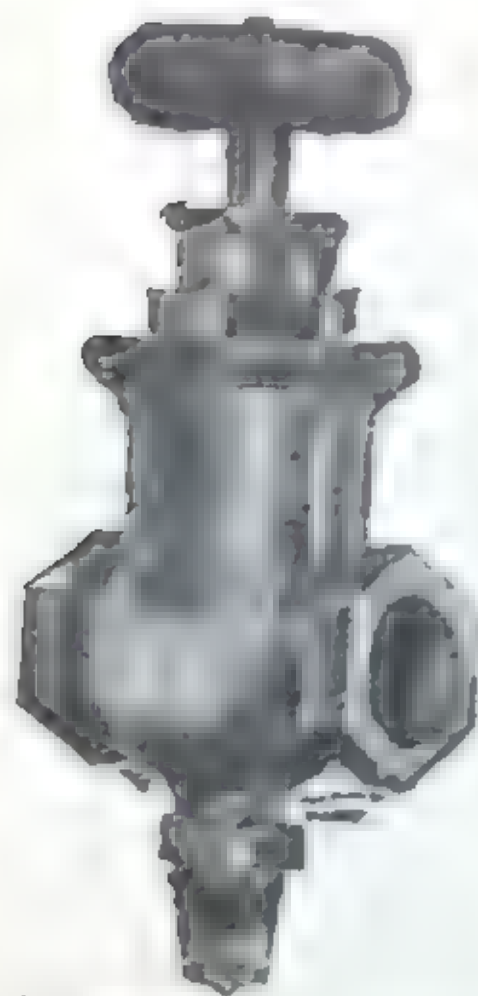


THE "LITTLE WONDER" INJECTOR.

Horse Power	10	20	40	60	80	120	150	200	250	300
Steam Pipe	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
Water Pipe	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	1	1	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
Feed Pipe	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	1	1	1	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
Capacity per hour at 100 lbs. Steam	75	150	300	450	600	900	1125	1500	1875	2250
Price	\$12	\$15	\$18	\$20	\$40	\$45	\$55	\$65	\$75	\$80

CURTIS PRESSURE REGULATOR.

For STEAM, WATER, or AIR.

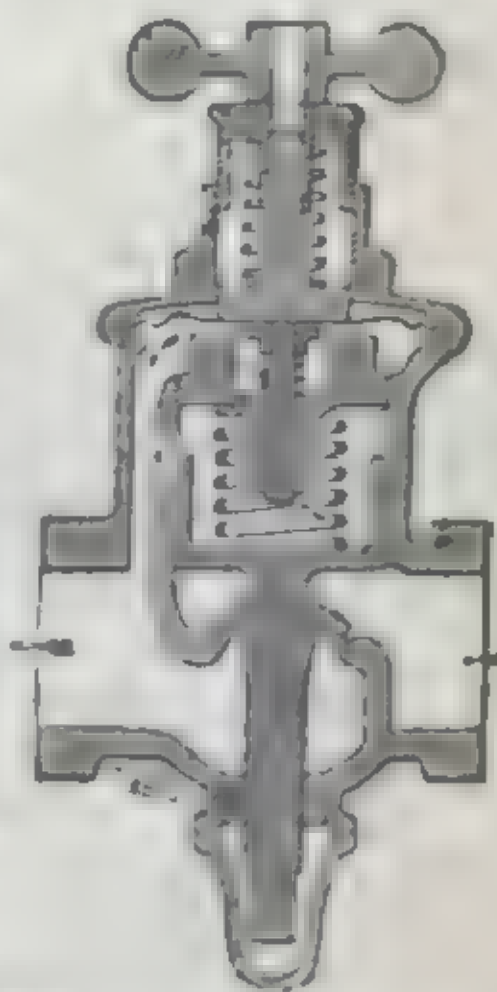


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Size	Price	Size	Price	Size	Price
1 inch	\$22 00	2 $\frac{1}{2}$ inch	\$57 00	6 inch	\$180 00
1 $\frac{1}{2}$ inch	28 00	3	72 00		
2 inch	35 00	4	100 00		
3 inch	44 00	5	135 00		



CURTIS EXPANSION TRAP.

FOR DRAINING, CONDENSATION IN
PIPES, COILS, ETC.

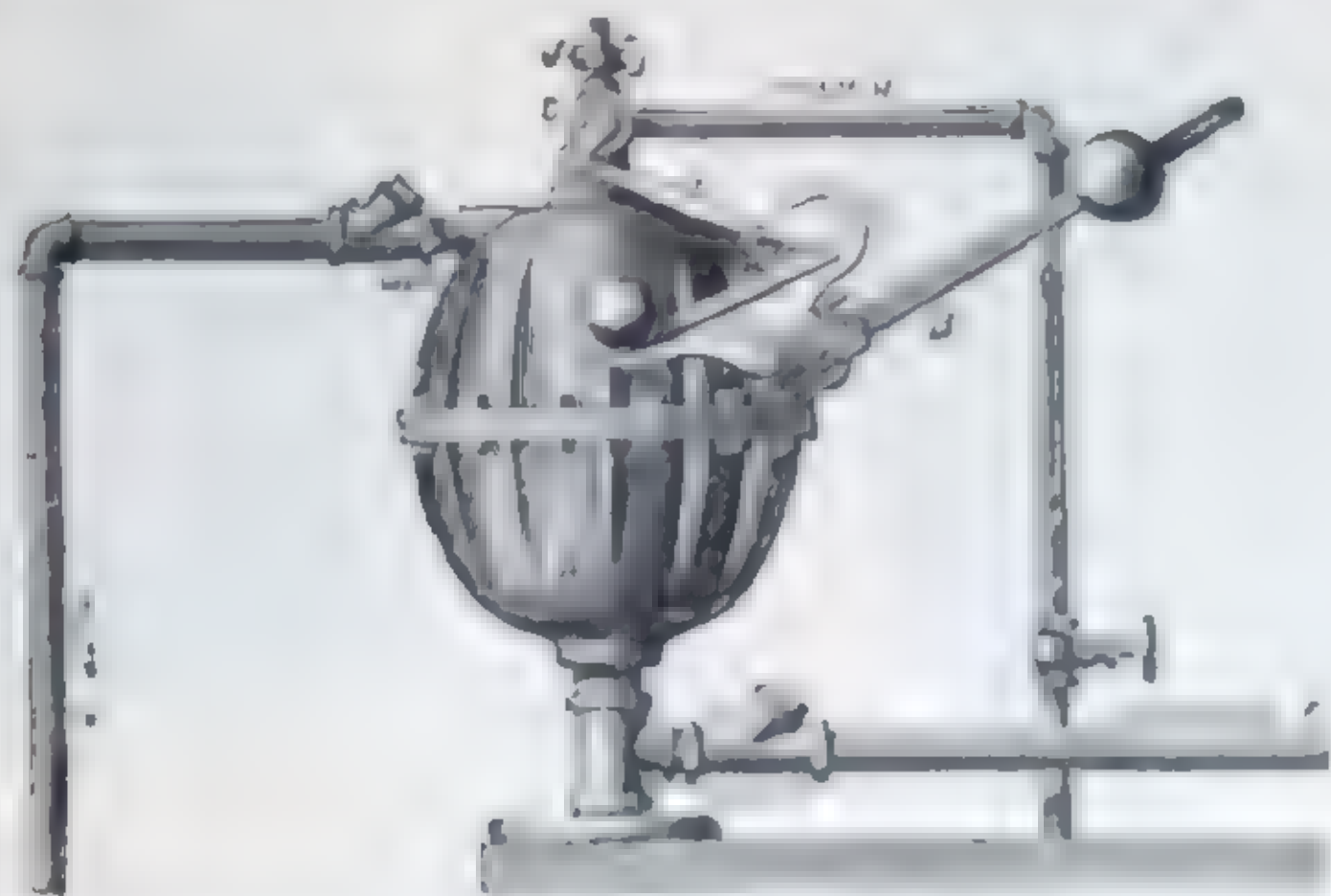


Condensing Capacity of One Inch Pipe

No. of	200 ft. of 1 inch pipe, price	No. of	200 ft. of 1 inch pipe, price
1	\$10 00	1	\$10 00
2	13 00	2	13 00
3	18 00	3	18 00
4	25 00	4	25 00
5	35 00	5	35 00
6	30 00	6	30 00
7	75 00	7	75 00



AUTOMATIC RETURN STEAM TRAP.



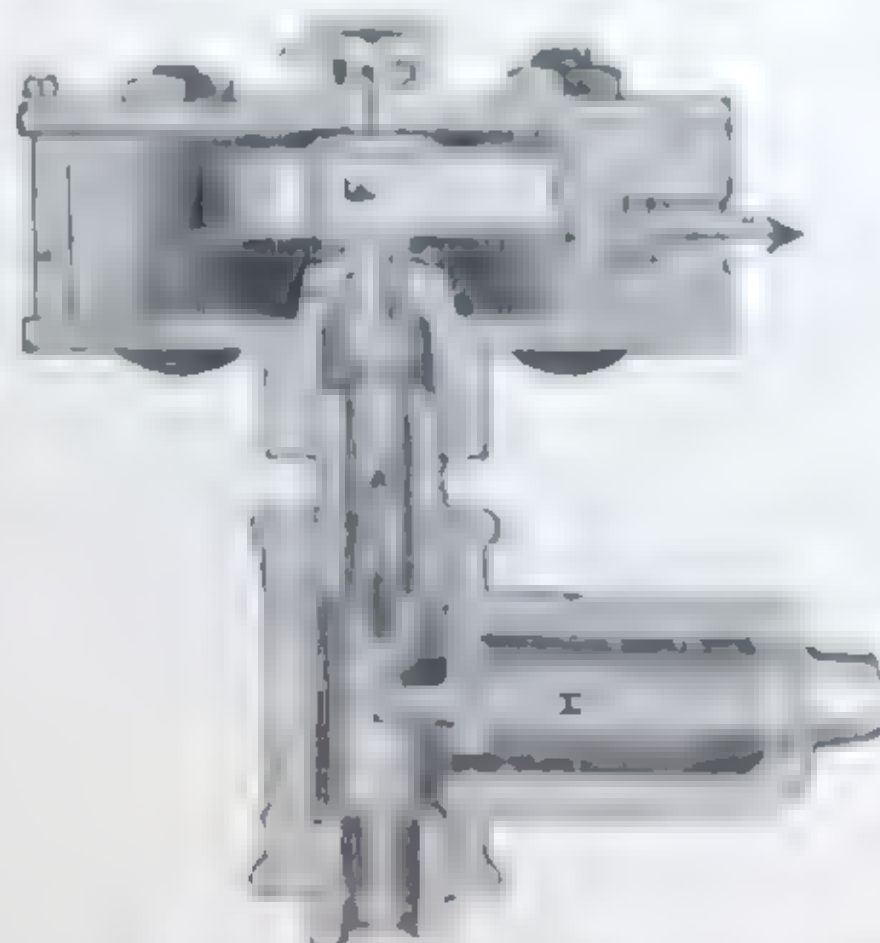
This Trap automatically drains the water of Condensation from Heating Coils, Steam Radiators, Drying Machines, Boiling Pans, and wherever Condensation occurs in steam pipes under pressure, *(whether above or below the Boilers which supply the steam) returning the same direct to boiler.*

No. 1	will drain	4,000 to 5,000	ft. of 1 in. pipe			Standard
" 2	"	8,000 to 10,000	" 1 "			Day 10
" 3	"	15,000 to 20,000	" 1 "			Day 10
" 4	"	30,000 to 40,000	" 1 "			Day 10

We recommend the Straightway Swinging Check Valve when using these Traps.

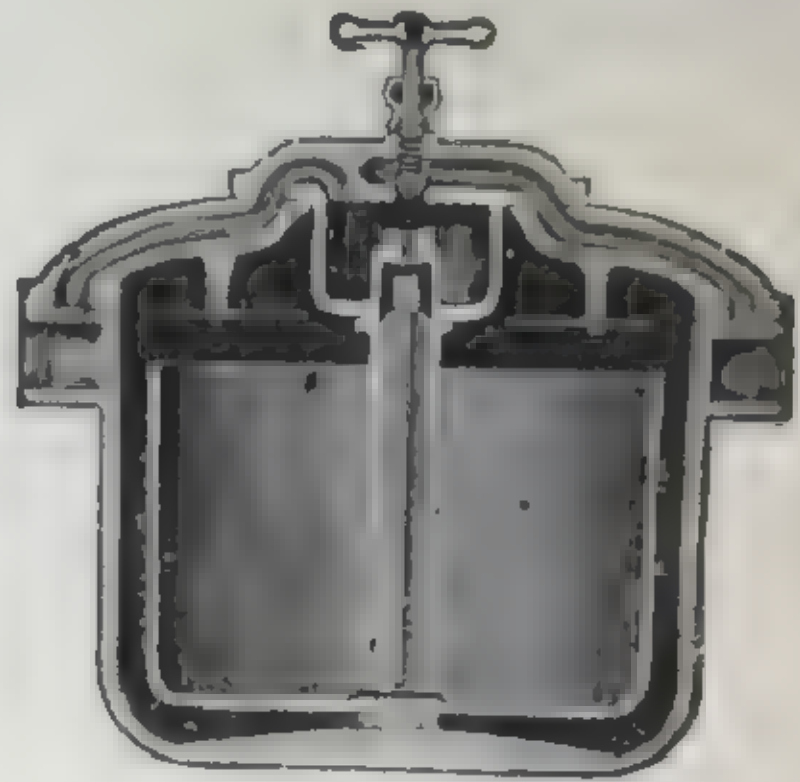
No. 1 Receiver	Price, \$5.00	No. 1 Receiver	Price, \$5.00
" 2	" 10.00	" 1	" 5.00

HAWES' STEAM TRAPS.



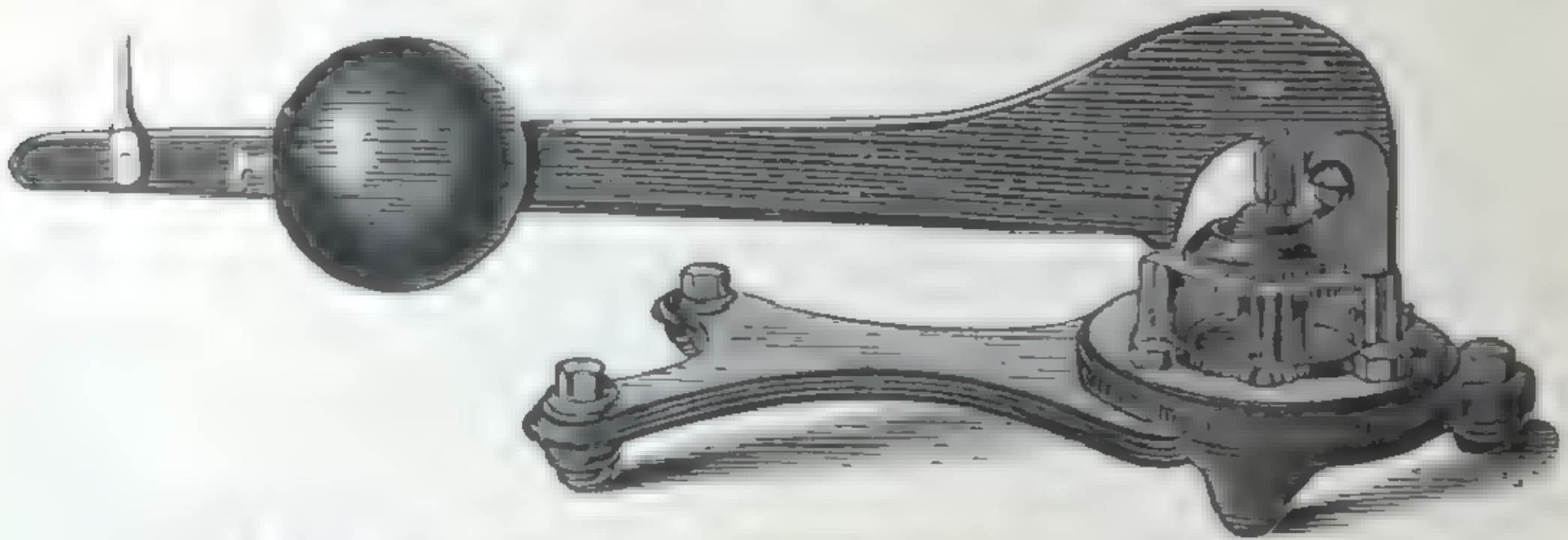
No.	1 tapped for	in. pipe, drains	500 ft. 1 in. pipe			\$11.00
" 2	"	" 1,000	" 1 "			10.00
" 3	"	" 2,000	" 1 "			11.00
" 4	"	" 4,000	" 1 "			12.00
" 5	"	" 20,000	" 1 "			13.00
" 6	"	" 100	" 1 "	"	glue pots and radiators.	6.00

CONDENSING STEAM TRAP.



Number	1	2	3	4	5
Size of connections	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$ in
Greatest number of square feet of surface which they will drain	350	900	1400	2000	3500
Price	16.00	20.00	27.50	35.00	60.00

STEAM DAMPER AND FIRE REGULATOR.



No. 1, For Boilers of 5 Horse Power and under,	\$25.00
" 2, " " 20 " " " "	40.00
" 3, " " 30 " " " above	50.00

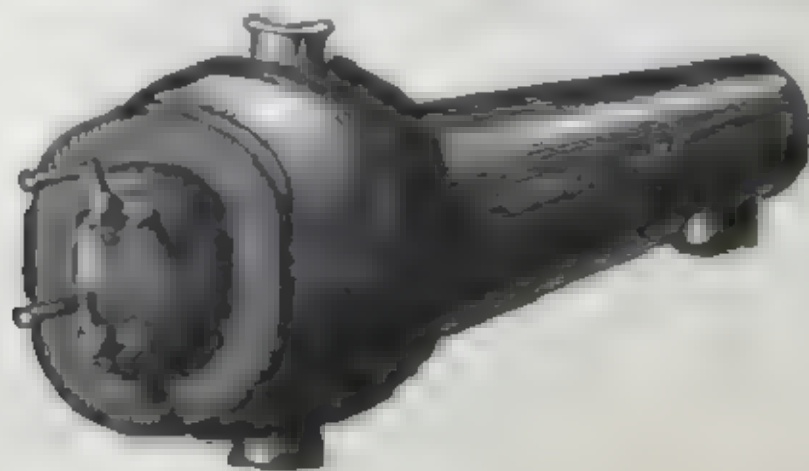
LOW PRESURE DAMPER REGULATOR.



Price

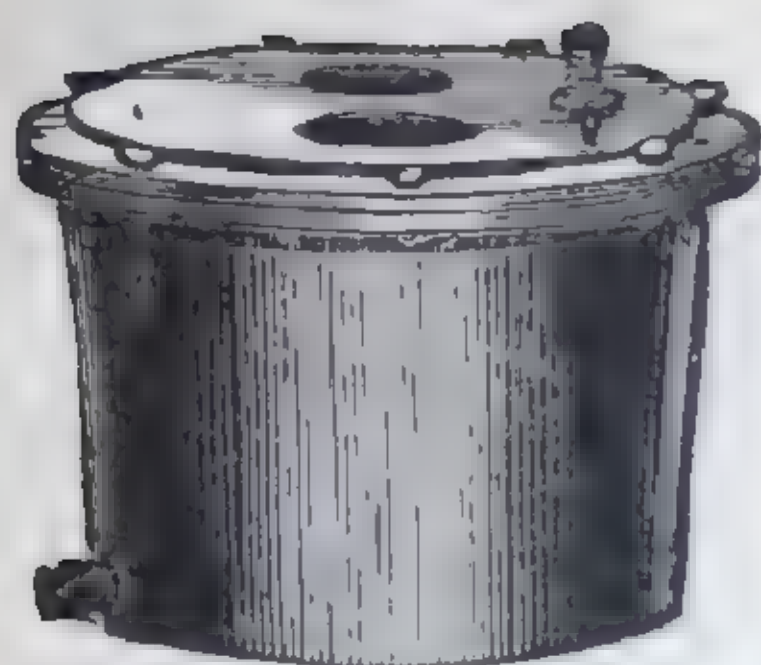
\$6.00

AUTOMATIC WATER FEEDER.

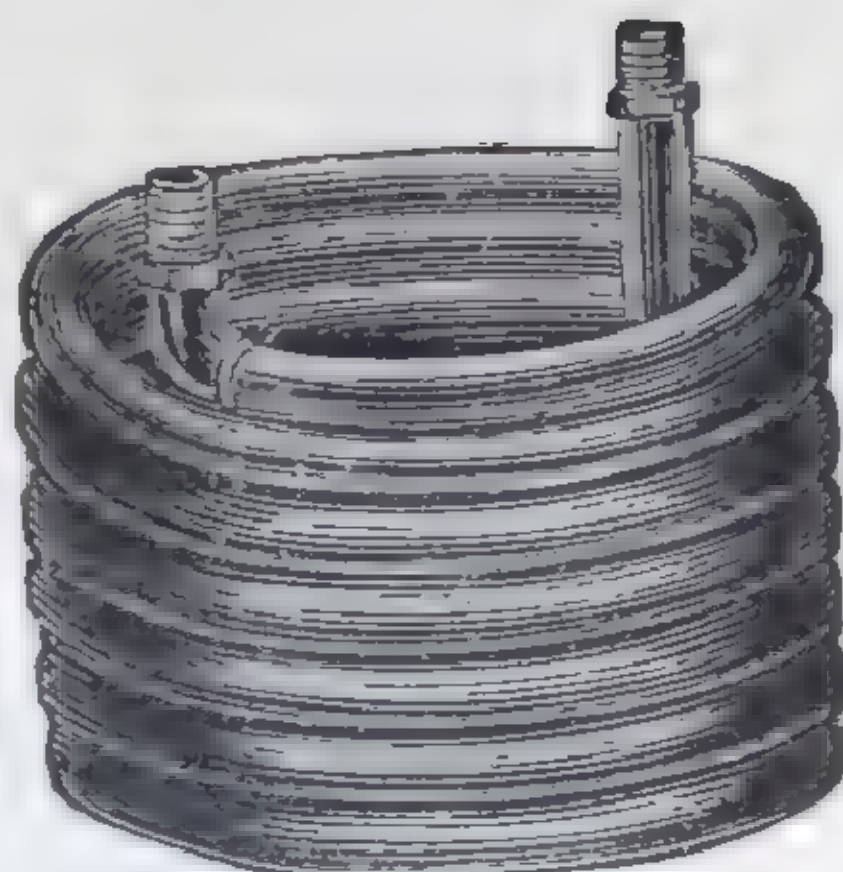


Price

\$20.00.



FEED WATER HEATER.



HEATER COIL.

Price of Heaters—Complete.

Size of Pipe of Coil	1 in.	1 1/4 in.	1 1/2 in.	2 in.
No. 1.....	15 00	20 00	25 00	40 00
No. 2.....	20 00	28 00	45 00	70 00

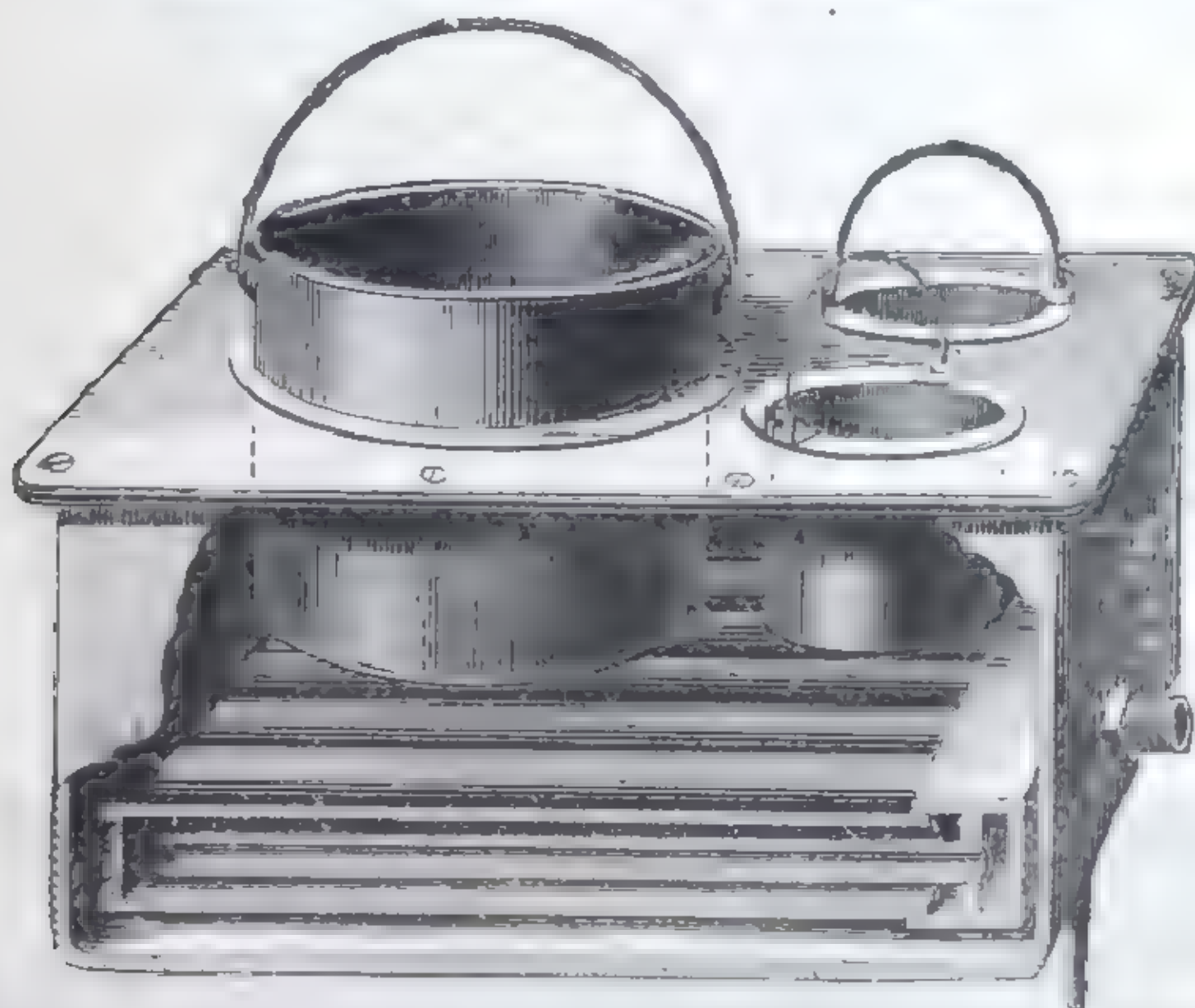
The No. 2 has a size larger pot than the No. 1, with a length of coil corresponding, and are much more effective.
Made only to order.

Coils for Heaters.

Size of Pipe	1 in.	1 1/4 in.	1 1/2 in.	2 in.
Price.....	6 00	10 00	12 00	18 00
Price of Coiled Pipe, per foot	0 20	0 30	0 40	0 50

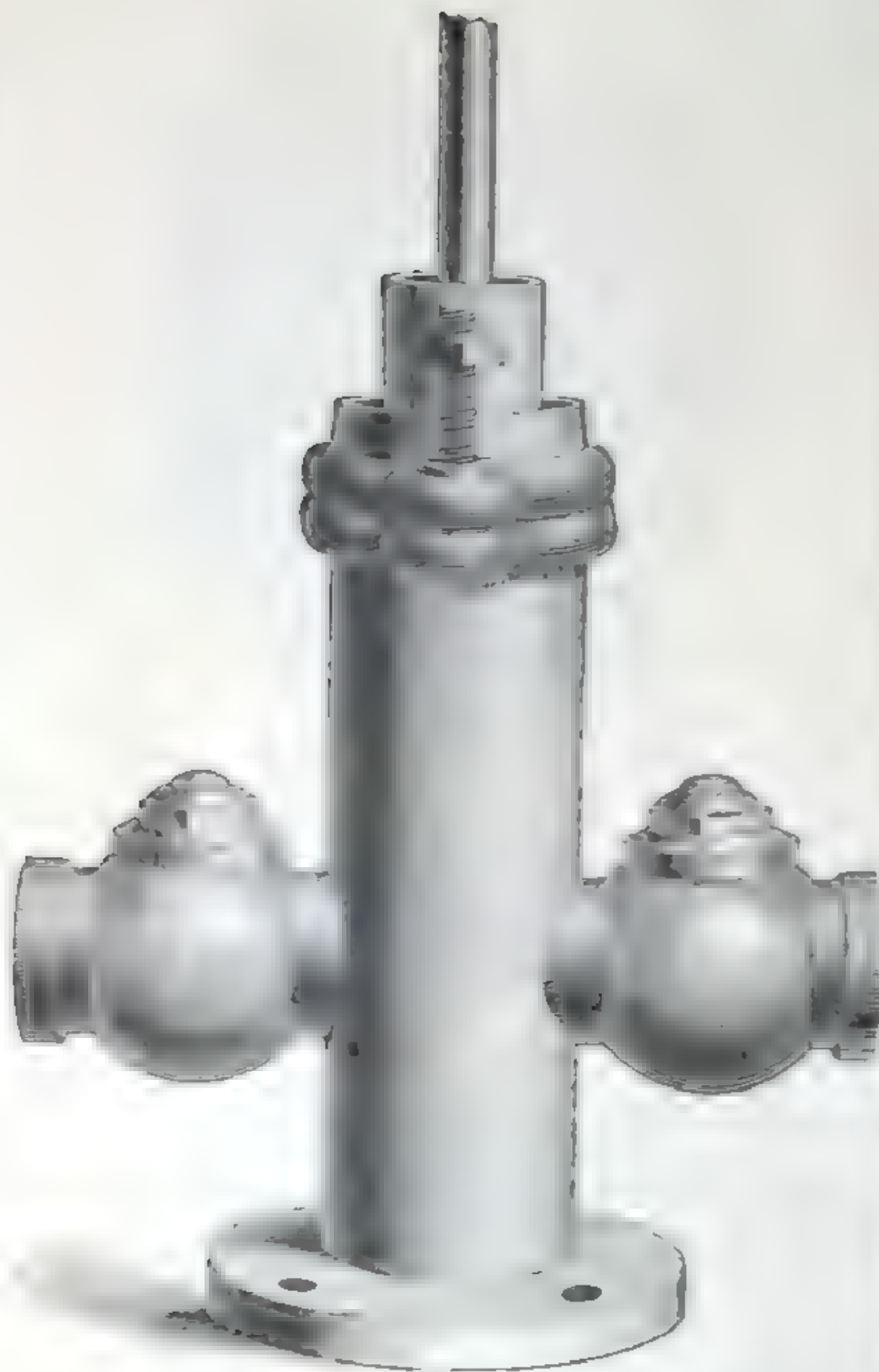
COILS for STILLs, SOAP KETTLES, FURNACES, &c., made to order, any size and shape.

IMPROVED GLUE HEATER.



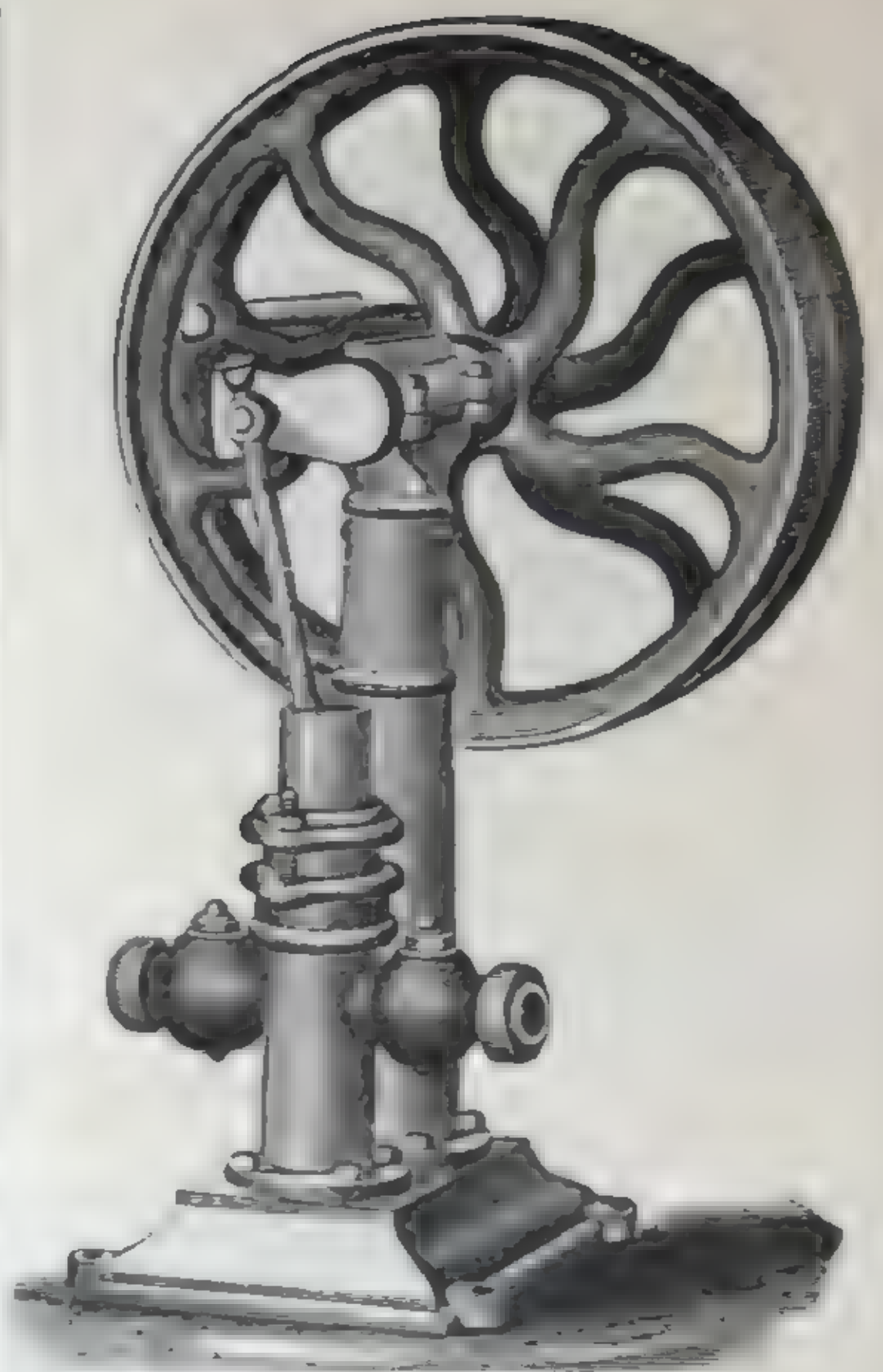
Size of Cover.....	11x15 1/2 in.	16x22 1/2 in.	16x28 3/4 in.
Depth.....	7 in.	9 in.	9 in.
Size and Number of Pots which can be fitted to each size	Two 5 in., or One 8 in., or One 9 in.	Six 5 in., or One 10 in., and Two 5 in.	Two 12 in., or One 12 in., and Four 5 in., or Eight 5 in.
Price without Pots	No. 1, \$8 00	No. 2, \$16 00	No. 3, \$20 00
COPPER POTS—Size	5x5 in.	8x7 1/2 in.	9x7 1/2 in.
Price, each	\$2 25	3 75	4 25

5 in. Pots of Cast Iron, galvanized 75 cents each



Boiler Feed Pump.

No.	1	2	3	4
in. Bore.	2	2 1/2	3	4
in. Stroke	3	3	3	3
	\$12 00	16 00	21 00	25 00
				35 00

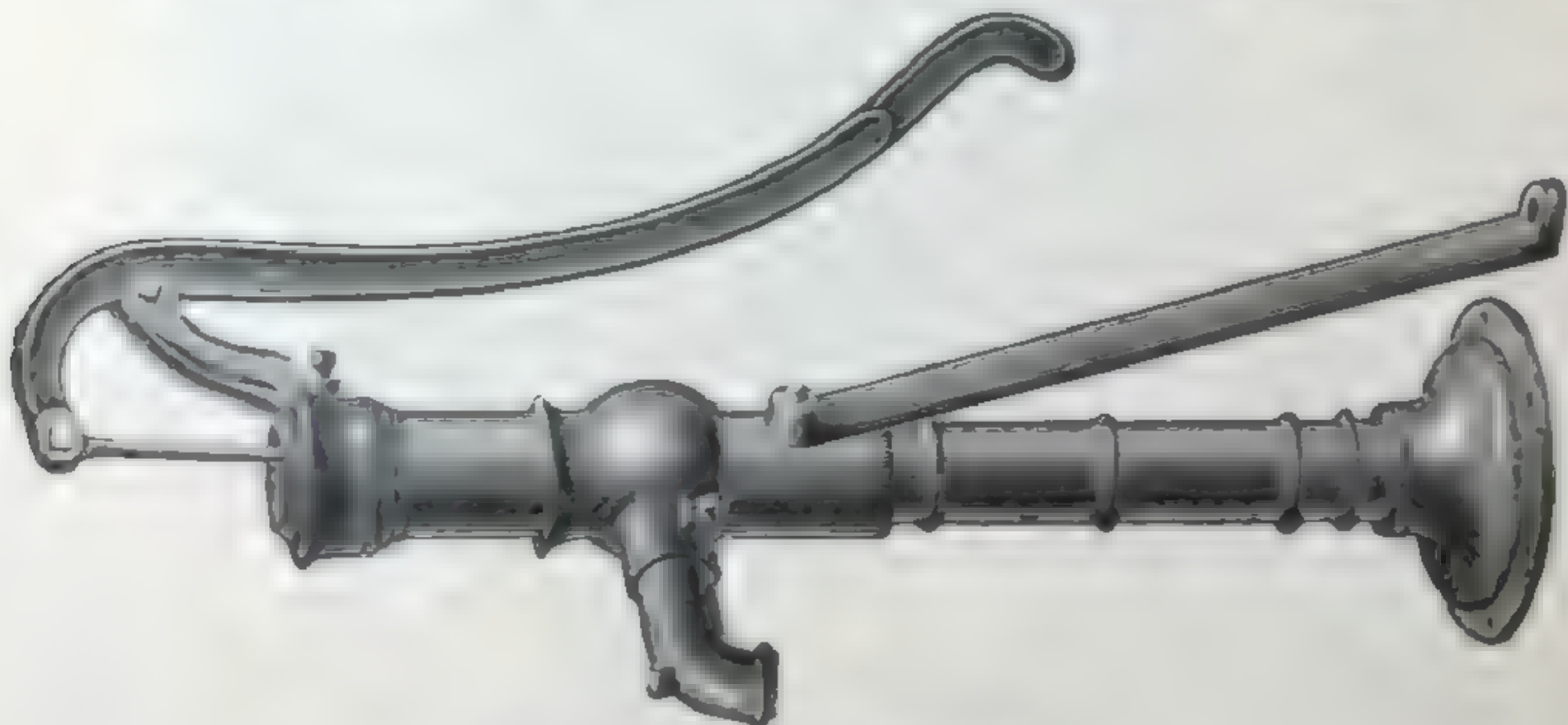


Mounted on Base, with Column, Crank Shaft and Pistons, for hand or power.

Column Boiler Pump.

No.	1	2	3	4
in. Bore.	2	2 1/2	3	4
in. Stroke	3	3	3	3
	\$30 00	35 00	40 00	50 00

IMPROVED DRIVE WELL PUMP.

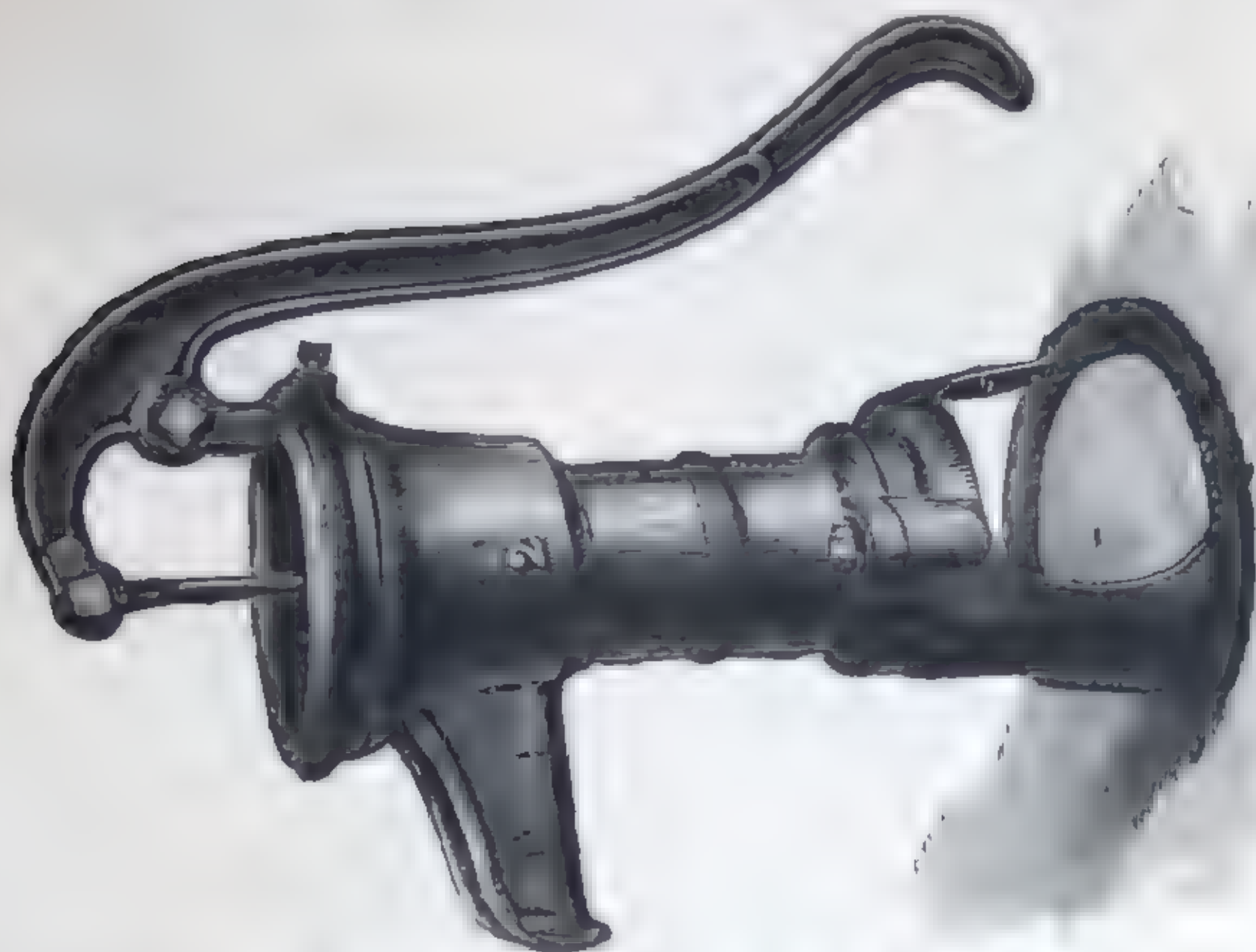


SIZES AND PRICES

No.	2	3	4
in. Cylinder.	2 1/2	3	4
with 3 ft. 1 1/4 in Wrought Iron Set Length, each,	\$8 00	8 25	8 75

Without Set Length, 50 Cents less on List.

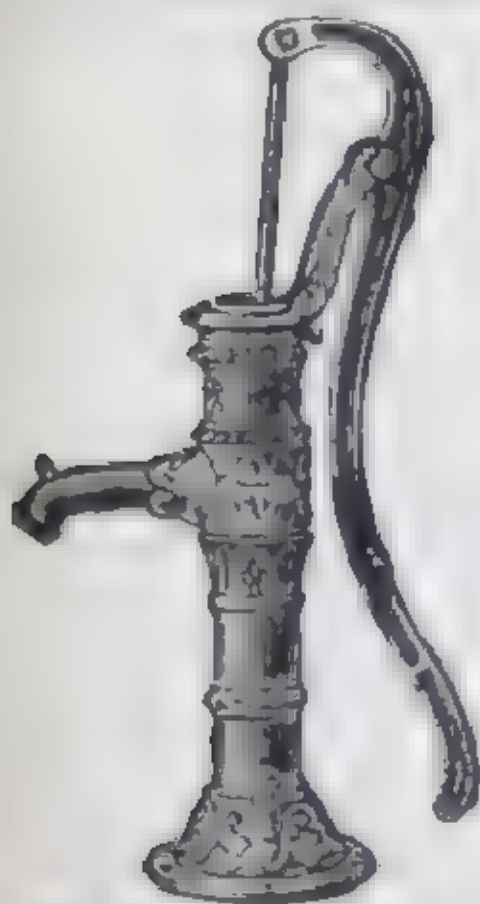
PITCHER SPOUT PUMP.



SIZES AND PRICES.

No. 1, 2½ in. bore, for 1 or 1½ in. pipe,.....	each \$1 25
No. 2, 3 " " 1½ or 1¾ " " " " " "	" 1 75
No. 3, 3½ " " 1½ or 1¾ " " " " " "	" 5 25
No. 4, 4 " " 1½ or 2 " " " " " "	" 5 75

Fitted for Lead or Iron Pipe.



Cistern and Well Pump.

Sizes and Prices.

No. 0, 2 in. bore, for ¾ or 1 in. pipe.....	each \$1 50
No. 1, 2½ " " ¾ or 1 " " " " " "	" 4 00
No. 2, 2½ " " 1 or 1½ " " " " " "	" 4 50
No. 3, 2¾ " " 1½ or 1¾ " " " " " "	" 5 00
No. 4, 3 " " 1½ or 1¾ " " " " " "	" 5 50
No. 5, 3½ " " 1¾ or 2 " " " " " "	" 6 75
No. 6, 3½ " " 2 or 2½ " " " " " "	" 8 00

Fitted for Iron and Lead Pipe.

STEAM POWER AND HAND PUMPS, of every description,
for Mills, Factories, Houses, Ships, Wells, etc., at manufacturers' prices and discounts.

DRIVE WELL POINTS.

Brass Wire Gauge Filter and Brass perforated Jacket fastened around Galvanized Iron Pipe.

1½ in., 30 in. long, each \$5 00	1½ in., 42 in. long, each \$7 00	2 in., 36 in. long, each \$15 00
1¾ " 36 " " " 6 00	1½ " 30 " " " 7 50	2½ " 42 " " " 20 00
		3 " 42 " " " 25 00

DRIVE CAPS.

Size.....	1	1½	1¾	2	2½	3 in.
Price.....	0 60	0 75	0 90	1 25	1 75	2 50

Extra Heavy Couplings for Drive Pipe.

Size.....	1	1½	1¾	2	2½	3 in.
Price.....	0 15	0 25	0 30	0 40	0 60	0 80

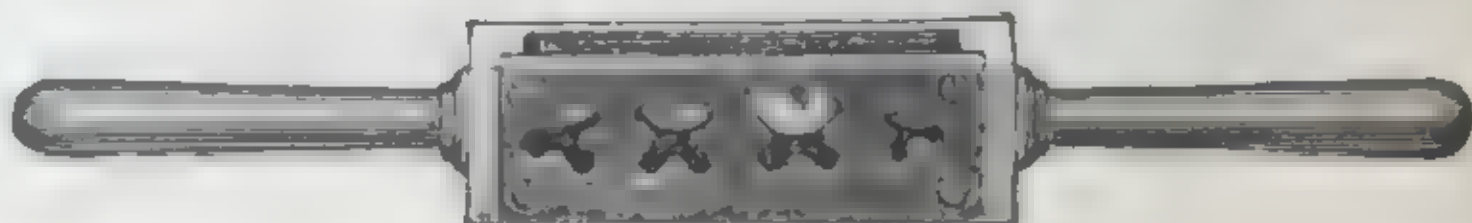
STOCKS AND DIES.

GLEASON'S SCREWING STOCKS.



Price, cutting $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, and $\frac{7}{8}$ in. Brass Pipe, \$10 00.

SOLID PLATE AND DIES.

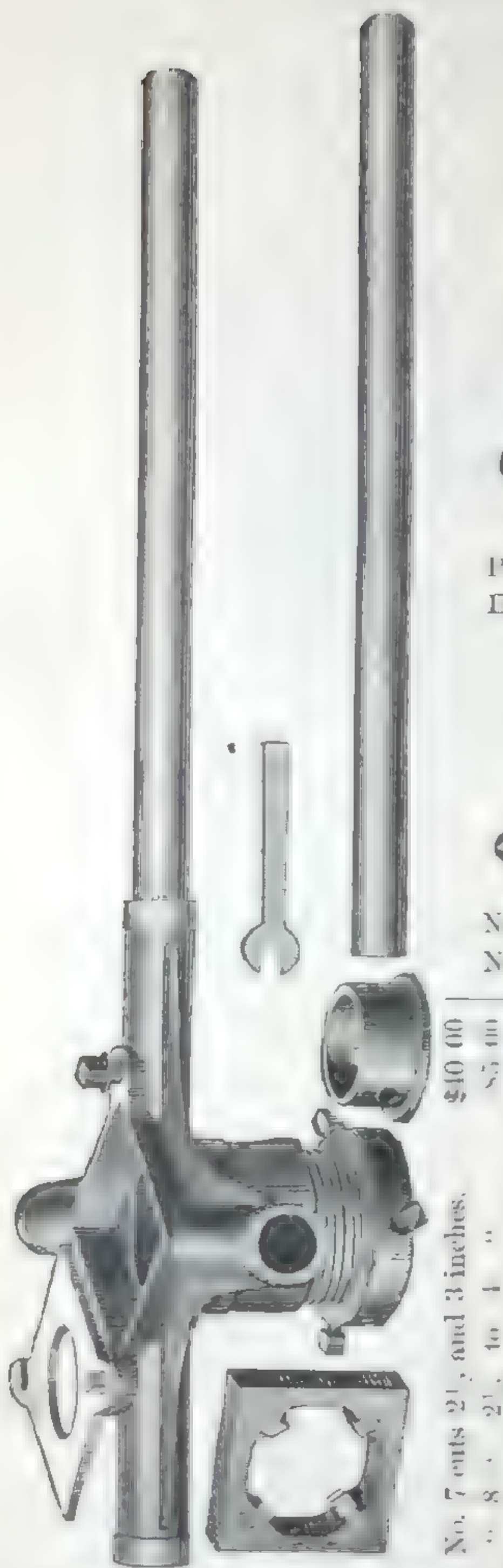


Price, cutting $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch Pipe, \$7 00
Dean's Combination Stock, cutting $\frac{1}{8}$ to 1 inch, 10 00

COMBINATION SCREWING STOCK. WITH LOOSE DIES.



No. 1 cuts $\frac{1}{4}$ to $\frac{1}{2}$ inch, \$8 00
No. 2 " " to 1 " 9 00



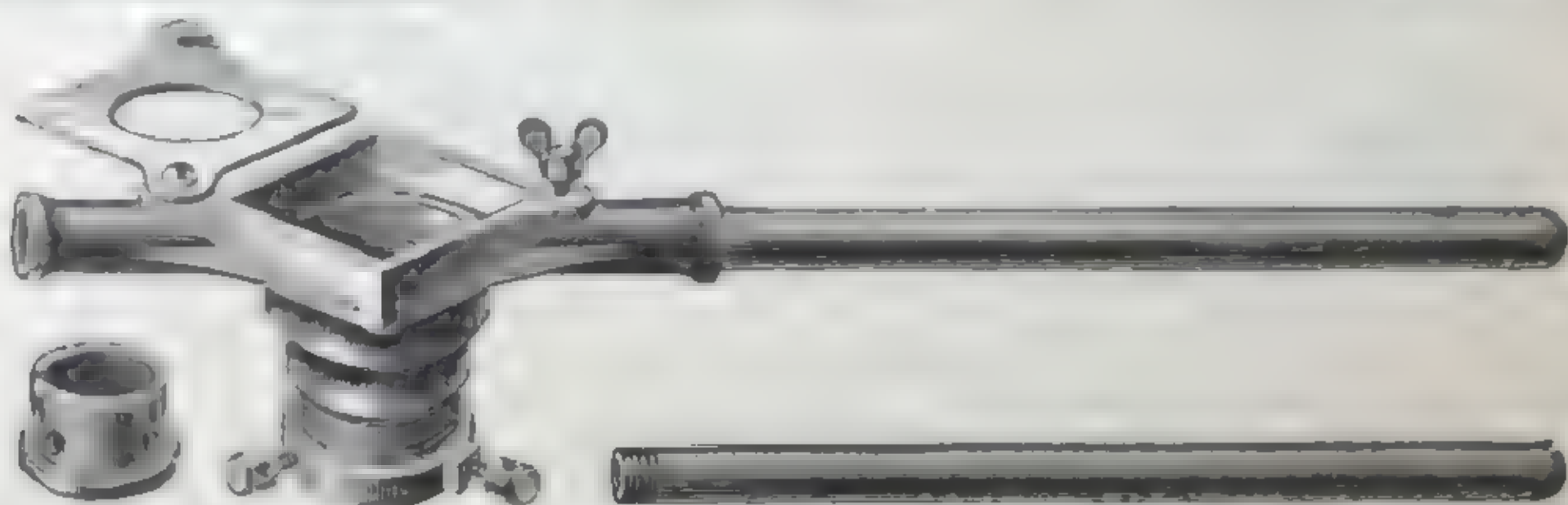
No. 7 cuts $2\frac{1}{2}$, and 3 inches, \$10 00
No. 8 " " " " 5 00



Stocks and Dies Complete.

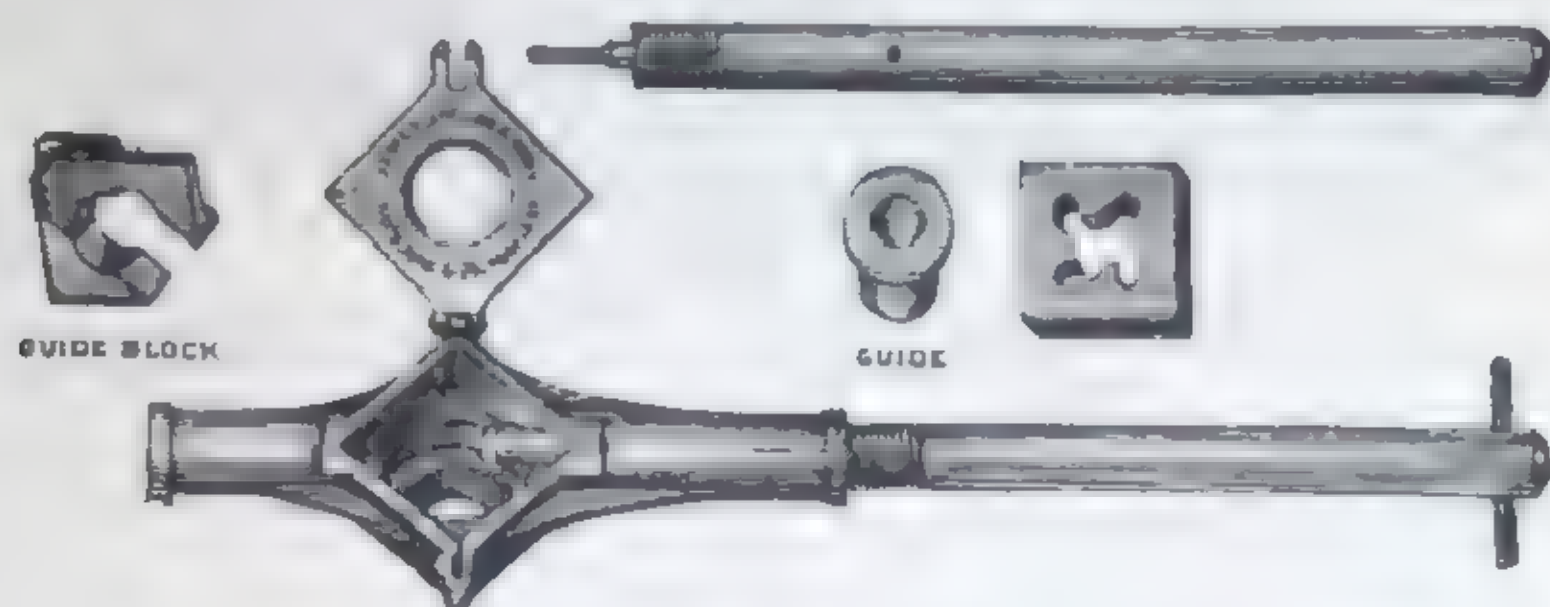
No. 1 cuts $\frac{1}{8}$ to $\frac{1}{2}$ inch	\$6 50
" 2 " $\frac{1}{4}$ to 1 "	10 00
" 3 " $\frac{1}{8}$ to 1 "	12 00
" 4 " $\frac{3}{4}$ to 1 $\frac{1}{2}$ "	10 00

Nos. 5, 6, 7 and 8 have *Leader Screws*.



No. 5 cuts $1\frac{1}{4}$ to 2 inch, \$16 00
No. 6 " 1 to 2 " 20 00

IMPROVED COMBINATION DIE STOCK AND PIPE CUTTER.



Patented June 20th, 1876. May 10th, 1881.

These tools are adapted for general use by Steam and Gas Fitters, Machinists and Engineers, especially in Mills, Factories, Breweries, etc., *where they do their own pipe fitting.*

It is equally efficient as the separate tools, and *costs less.*

The changes are quickly made, *it being self-contained.* To cut off, it is simply necessary to substitute the Guide Block for the die.

They are made of wrought and malleable iron, are light and strong, and *weigh no more than the ordinary stock.*

The *cutting tool* is the ordinary *wheel cutter*, of standard size, and when worn out can be readily replaced.

The *cover*, holding in place the die, *lifts up*, and is secured by a *hinge*. There are no screws to drop out, as with the swinging cover.

Should any of the parts wear out they can be readily replaced, as *all parts are made interchangeable.*

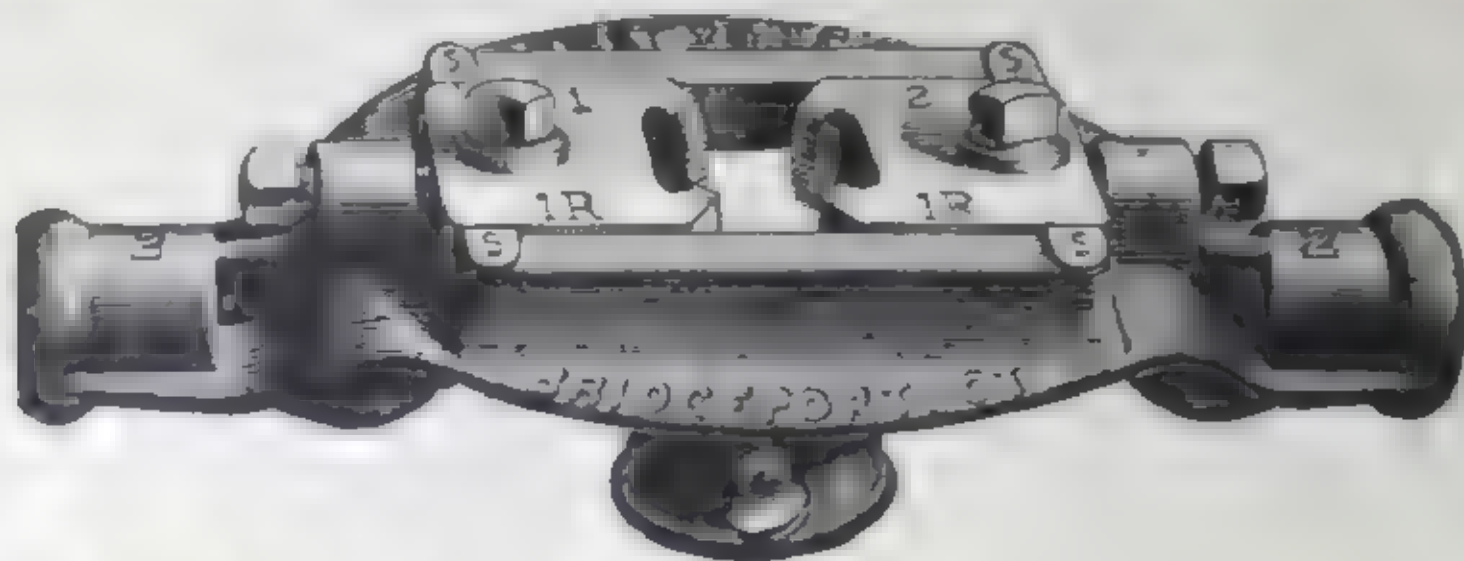
Stocks may be ordered *without dies* if desired.

With each tool are sent full instructions, which are *so simple* that it can be readily operated.

PRICES.

STOCK, cuts off from $\frac{1}{4}$ to 1 inch, inclusive,	\$5 50
“ with dies, $\frac{1}{4}$ to 1 inch, “	12 00
EXTRA DIES,	1 50
EXTRA GUIDES for Stock,	0 25
EXTRA WHEELS for Stock,	0 15

ARMSTRONG'S ADJUSTABLE STOCK AND DIES FOR PIPE AND BOLTS.



No. 1 Stock, 4 Pipe Dies, $\frac{1}{4}$ to $\frac{1}{2}$	each	\$ 9 00
" 1 " 7 Bolt " $\frac{1}{4}$ to $\frac{3}{4}$	"	15 00
" 1 " 4 Pipe and 7 Bolt Dies.	"	20 00
" 2 " 5 Pipe Dies, $\frac{1}{4}$ to 1 inch,	"	12 00
" 3 " 4 Dies, 1 to 2 inches,	"	24 00

MAGIC SCREW PLATES.

No. 1, with Cut-off and Dies for threading, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{2}$ and $2\frac{1}{4}$	each	\$16 00
" 2, " " " " " " " $\frac{1}{4}$, $\frac{3}{8}$, $1\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$	"	20 00
" 3, " " " " " " " $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, $1\frac{3}{4}$ and 2	"	28 00
" 4, " " " " " " " 1, 2, $2\frac{1}{2}$ and 3	"	45 00
" 5, " " " " " " " 2, 3, $3\frac{1}{2}$ and 4	"	60 00



BROCK'S PATENT PIPE WRENCH.

Number	0	1	2	3	4	5
Size of Pipe adapted to	$\frac{1}{4}$ to $\frac{1}{2}$	$\frac{1}{2}$ to 1	1 to 2	2 to 4	$1\frac{1}{2}$ to 8	2 to 14
Price	2 50	3 50	5 50	7 50	11 00	18 00

EAGLE ANVILS.

Numbers	0	1	2	3	4	5	6	7	8	9
Weight, lbs.	10	15	20	30	40	50	60	70	80	90
Price.	3 50	4 25	5 00	5 50	6 50	7 50	8 00	9 00	10 00	10 50

10 lbs. and over, 11c. per lb.

Peter Wright's Imported Anvils,

per lb.

The "Handy" Combination Bench and Pipe Vise.

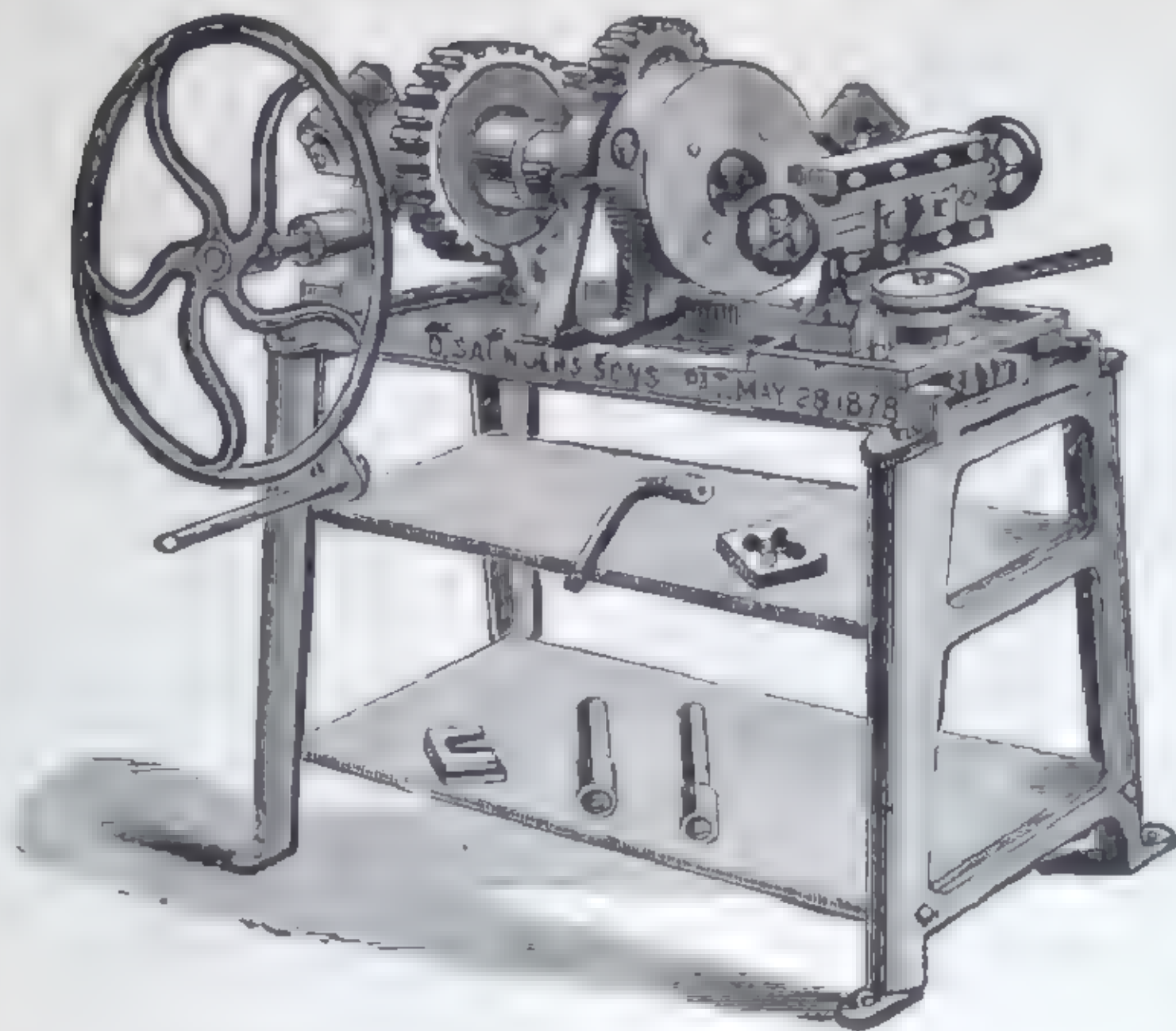


This most convenient little Vise is made entirely of Refined CAST STEEL, the jaws for pipe being finely tempered, and when worn down can be replaced with new ones in a few moments at a small expense.

The Vise weighs but 9 lbs., and will take pipe from $\frac{1}{4}$ to 1", and will hold firmly a shorter Nipple than any other pipe vise made. Price, \$6.00.

The I X L Pipe Cutting Machine.

These Machines are Offered as being
LESS EXPENSIVE,
MORE SUBSTANTIAL,



MORE THOROUGHLY FITTED,
And Better Adapted to
General Use, than any in the Market.

PRICE LIST.

With Dies, $\frac{1}{4}$ to 2 inch, Fly Wheel, and Nipple Sockets, for Hand Use . . \$90.00

With Dies, $\frac{1}{4}$ to 2 inch, Fly Wheel, Pulleys, Counter Shaft and Nipple
Sockets, for use by Power \$110.00

An attachment for cutting Bolts and Nuts can be fitted to these Machines, at
a slight additional cost.

A Large Saving of Labor is effected by this Machine.

SIMPLE IN CONSTRUCTION, EASY TO WORK, AND NOT LIABLE TO GET OUT OF
ORDER, REQUIRING NO SKILLED LABOR.

SOLID DIES, RIGHT OR LEFT.

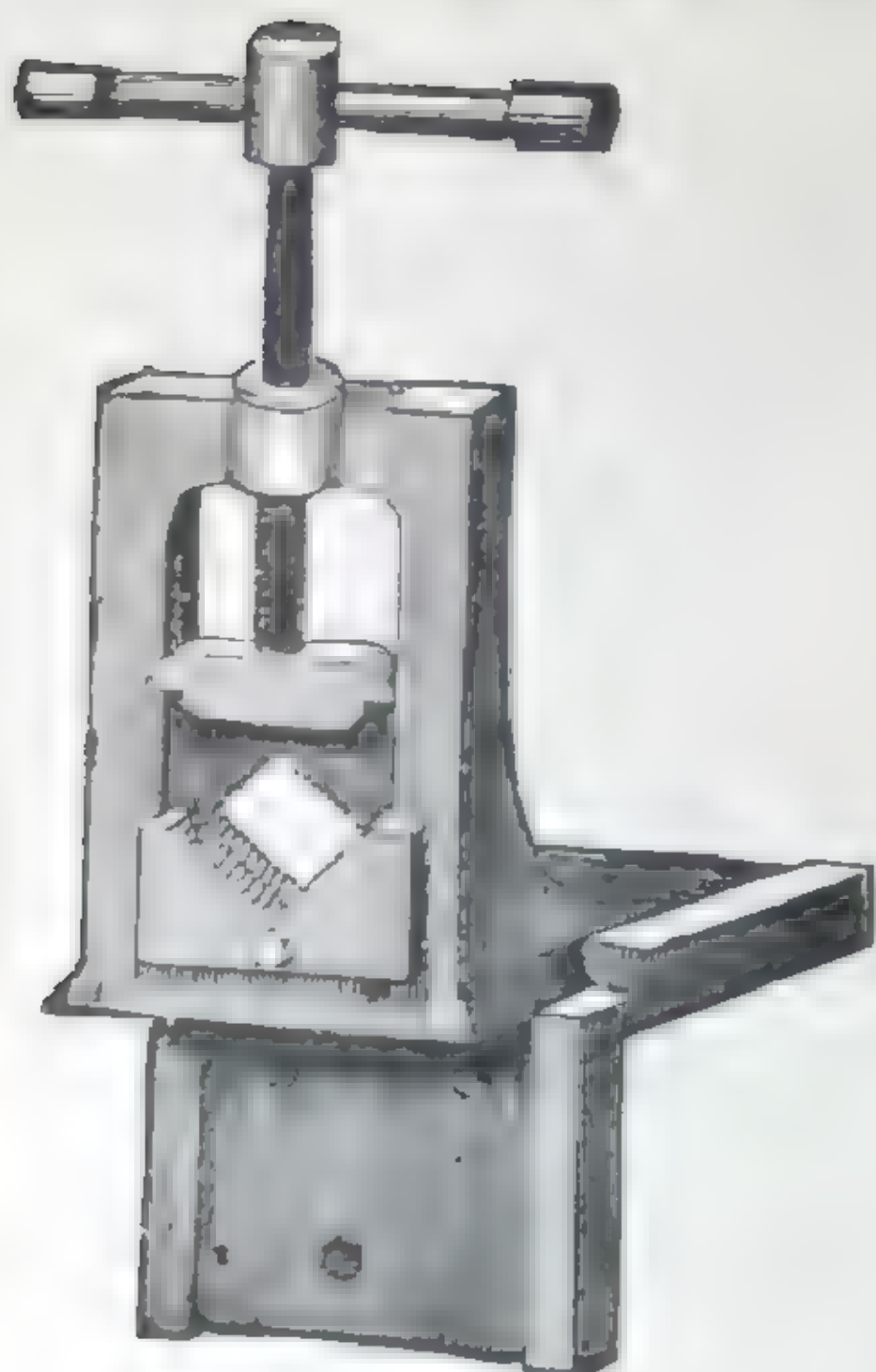
Dimensions,	$\frac{1}{2}$ x 2 in.	$\frac{3}{4}$ x 2 $\frac{1}{2}$ in.	$\frac{3}{4}$ x 3 in.	1 x 4 in.	$1\frac{1}{4}$ x 5 in.
Size,	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$	1, $1\frac{1}{4}$, $1\frac{1}{2}$	$2\frac{1}{2}$ x 3 in.
Price	1 25	1 75	2 25	3 00	10 00

TAPS AND REAMERS.



Size	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	8 in.
Taps, Right or Left, each	1 12	1 25	1 50	1 87	2 50	3 12	3 75	4 62	6 25	10 50	15 00	
Reamers, each	1 12	1 15	1 50	1 87	2 50	3 22	3 73	4 62	6 25	10 50	15 00	

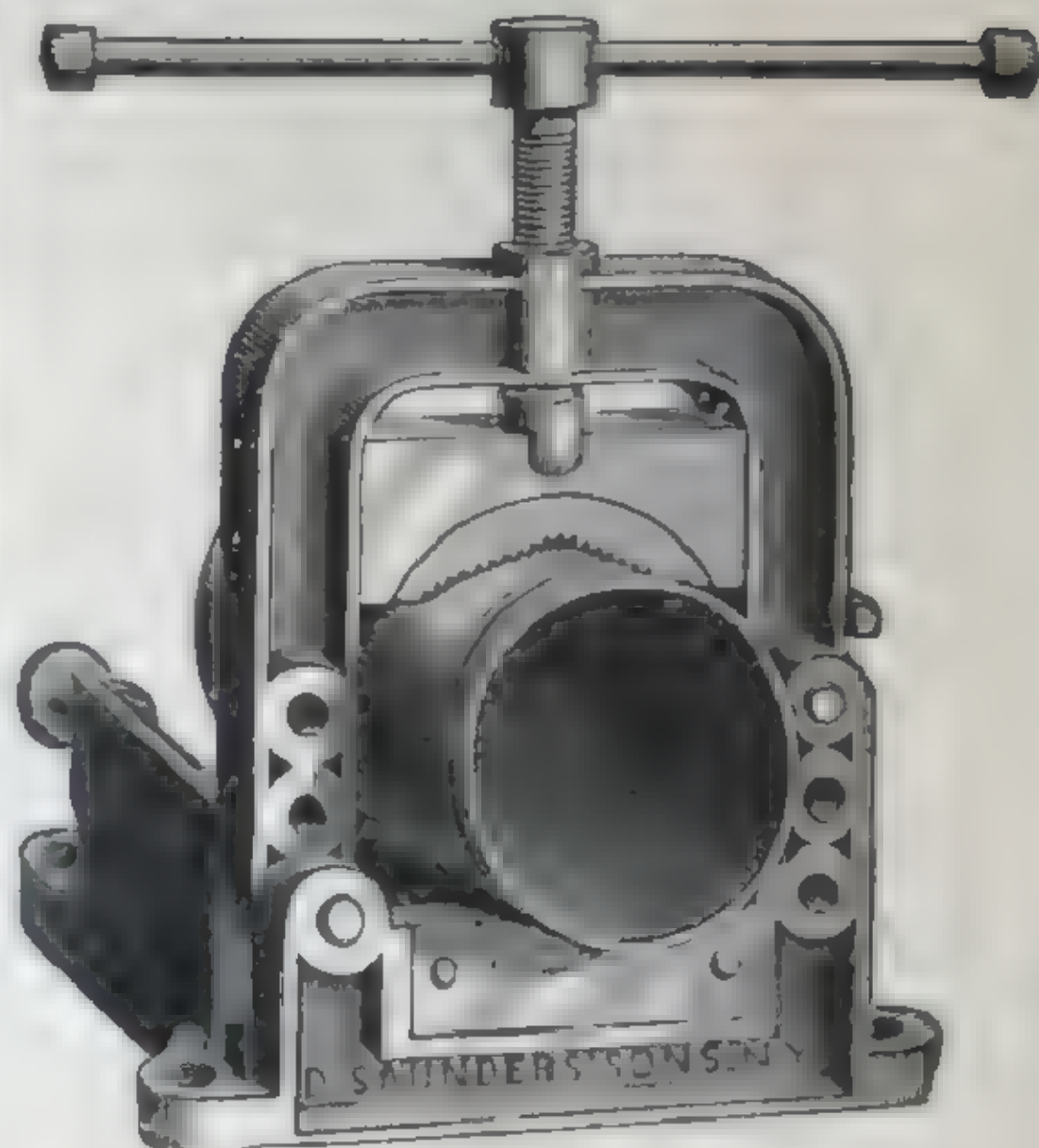
PIPE VISES.



Common Vise.

With Angle Plate.

No. 1 holds 1 to 2 inches	\$12 00
" 2 " 2 to 3 "	16 00
" 3 " 3 to 4 "	28 00



Open Jaw Vise.

Malleable Iron.

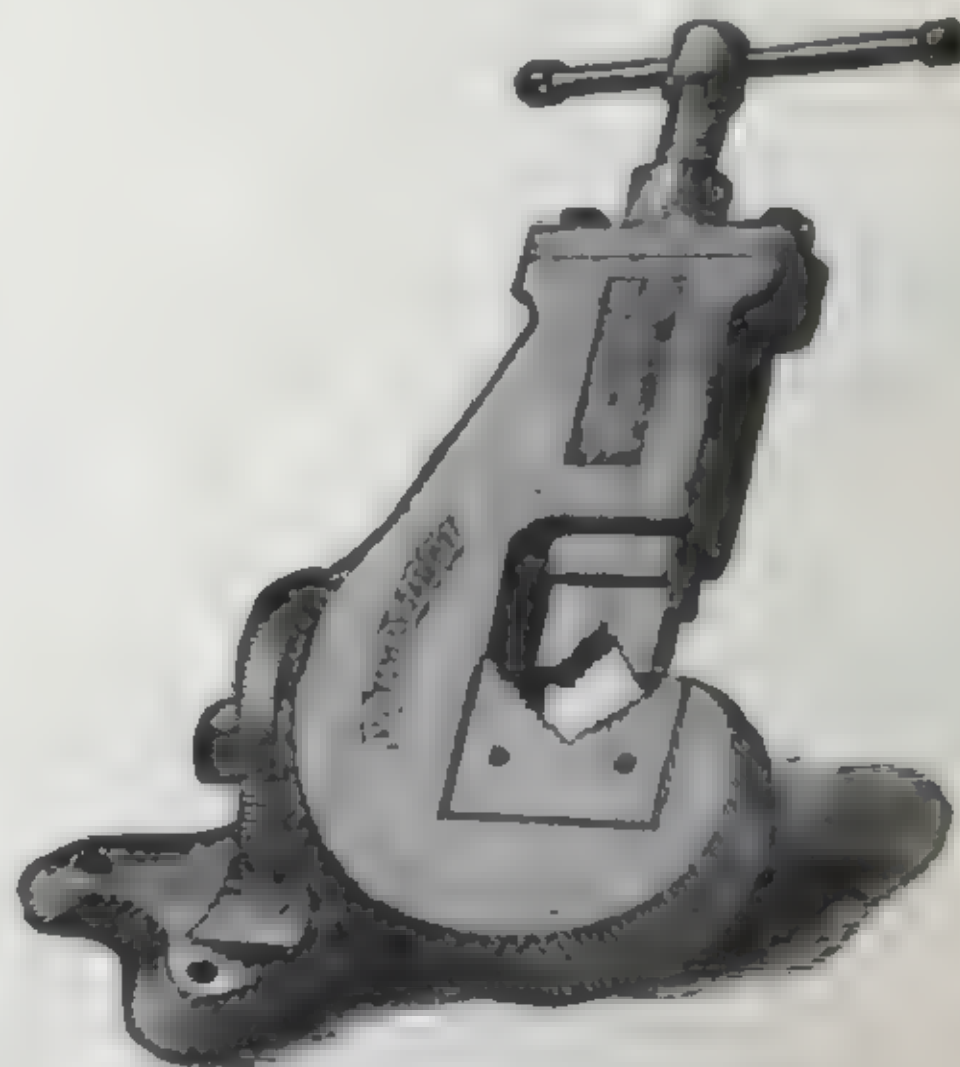
No. 3 holds 1 to 4 inches	\$20 00
" 4 " 2 to 6 "	30 00



Malleable Iron Vise.

Light and Strong.

No. 1 holds 1 to 2 inches	\$8 00
" 2 " 2 to 3 "	12 00



Nason's Patent Vise.

Open Jaw and Swivel.

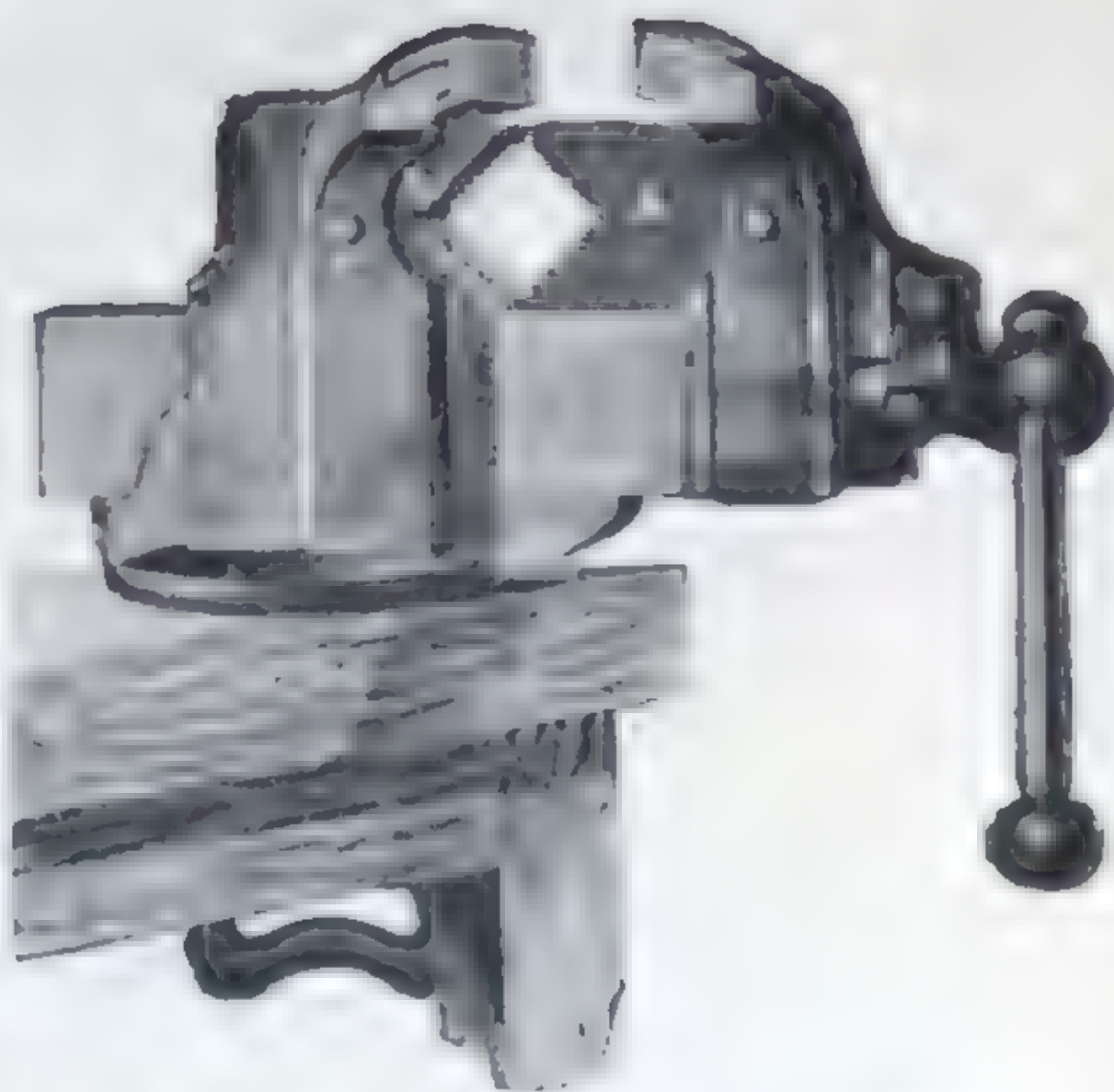
No. 1 holds 1 to 1 1/4 inches	\$15 00
" 2 " 1 1/4 to 2 "	18 00
" 3 " 2 to 3 "	30 00



Open Jaw Vise.

Malleable Iron.

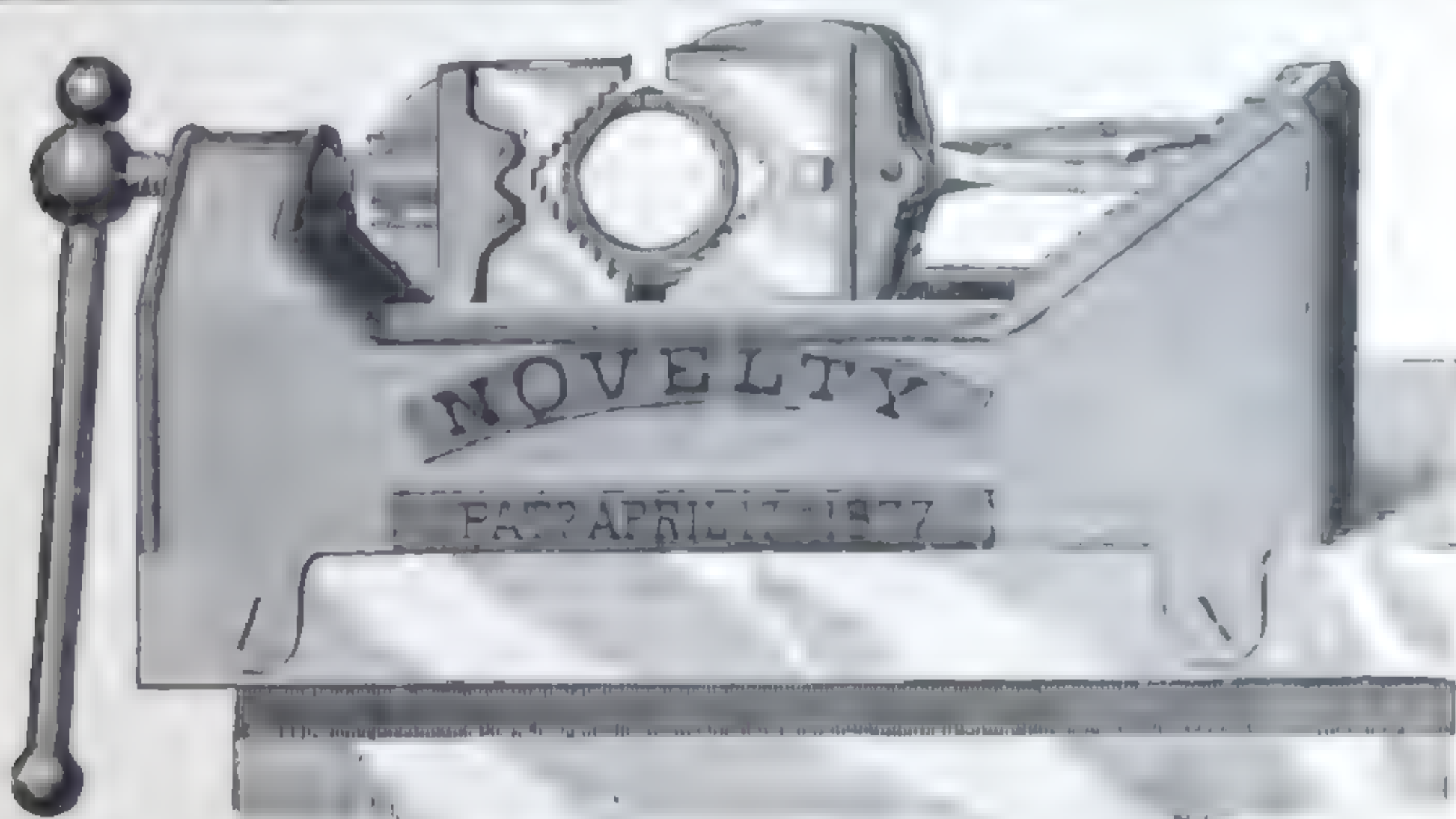
No. 1 takes $\frac{1}{4}$ to 2 inch Pipe. \$10.00
 No. 2 " " to 3 " " 12.00



Combination Vise.

No. 1 takes $\frac{1}{4}$ to 2 inch Pipe. \$10.00

No. 2 " " to 3 " " 12.00



Novelty Pipe Vise.

Malleable Iron.

No. 1 takes $\frac{1}{4}$ to 2 inch Pipe. Weight 10 lbs.
 No. 2 with Stand " " " 15 lbs.

Wrought Iron Leg Vises.

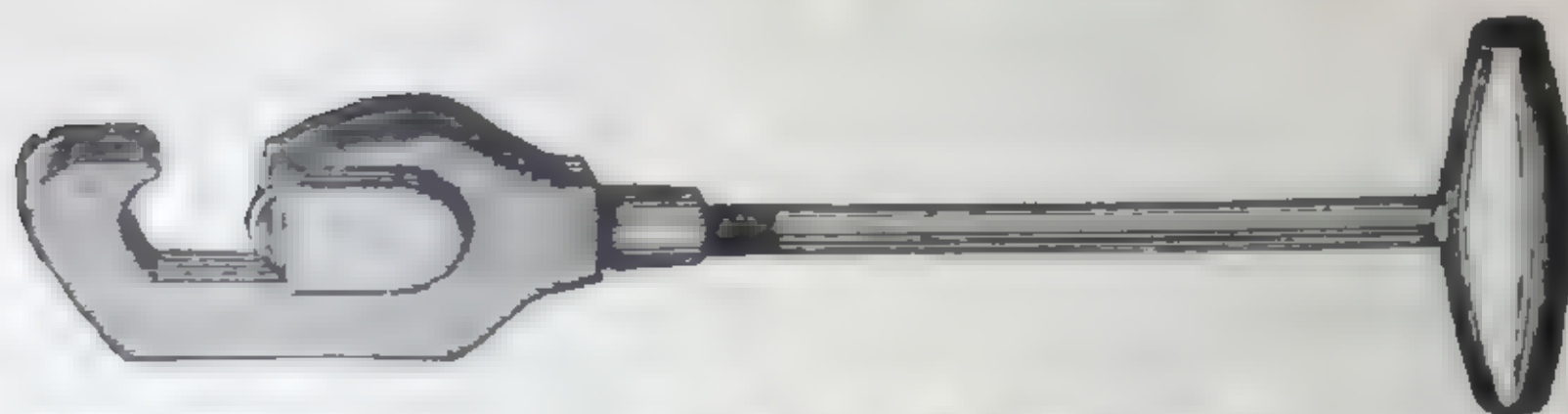
Peter Wright, Inc.,
 American

**STEPHEN'S, HOWARD'S, PARKER'S, HALL'S, MERRILL'S, SIMPSON'S,
 SMITH'S, UNION and BACKUS' VISES,** furnished at Manufacturer's Price.

STEEL CHISELS, Flat, Cape, Half Round, Diamond Point, Set, Wall, and
 Calking, 75 cents each.

PIPE CUTTERS.

STANWOOD'S CUTTER.



No. 1 Cuts 1 1/2 to 2 1/2 inches	\$3 00	No. 1 Steel faced	\$8 00
" 2 " 1 1/2 to 2 inches	4 50	" 2 " " "	10 00
" 3 " 2 to 2 1/2 inches	14 00	" 3 " " "	20 00
Extra Wheel, No. 1, 15c		No. 2, 20c.	No. 3, 30c.

SAUNDER'S TOOL CUTTER.



No. 1 Cuts 1 1/2 to 2 1/2 inches	\$6 50	No. 1 Tool	18c.
" 2 " 1 1/2 to 2 inches	8 00	No. 2 " "	25c.
" 3 " 2 to 2 1/2 inches	16 00	No. 3 " "	35c.

SAUNDER'S WHEEL CUTTER.



No. 1 Cuts 1 1/2 to 2 1/2 inches	\$3 00
" 2 " 1 1/2 to 2 inches	4 50
" 3 " 2 to 2 1/2 inches	14 00

EUREKA CUTTER.



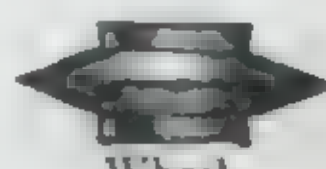
EXTRA PARTS.



Cutter Back with Wheel



Extra Jaw.



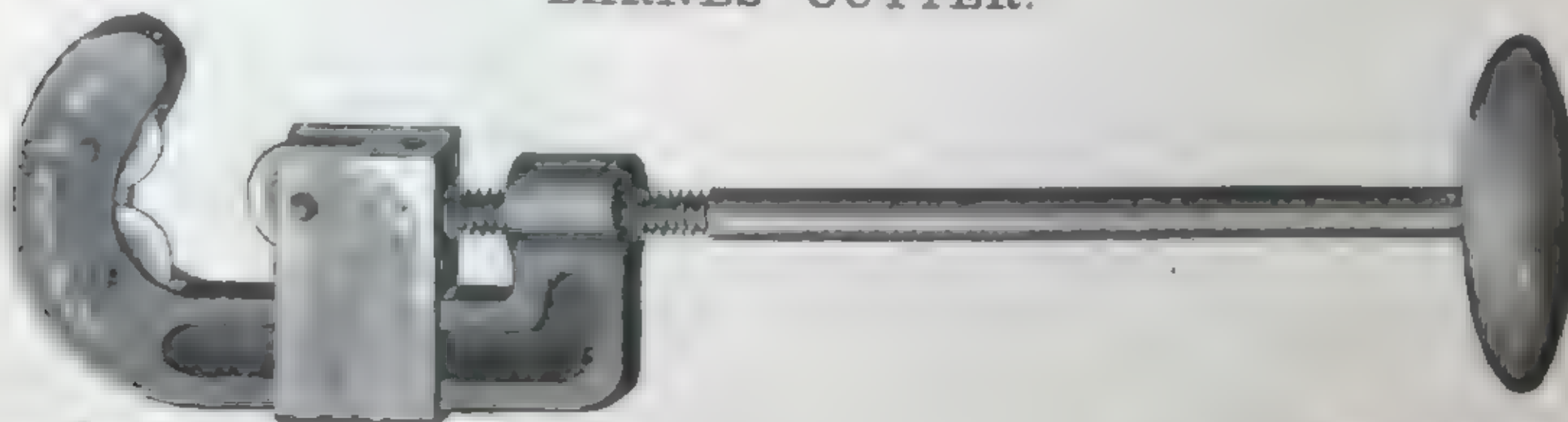
Wheel.



Wheel Pin.

No. 1 Cuts 1 1/2 to 2 1/2 inches	\$3 00
" 2 " 1 1/2 to 2 inches	4 50
" 3 " 2 to 2 1/2 inches	14 00

BARNES' CUTTER.



No. 1 Cuts 1 1/2 to 2 1/2 inches	\$4 50	Extra Wheel, No. 1	62c.
" 2 " 1 1/2 to 2 inches	6 00	" " No. 2	32c.
" 3 " 2 to 2 1/2 inches	10 00	" " No. 3	40c.



PIPE TONGS.

Size	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	4 in
Price	.60	.70	.80	.90	1.15	1.40	1.70	2.00	2.50	3.00

FORGED STEEL TONGS.

Size	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/4	4 in
Price	.44	.52	.66	.72	.90	1.08	1.40	1.50	1.90	2.40



BROWN'S ADJUSTABLE PIPE TONGS.

Number	1	1 1/4	2	3	4	5	6	7
Sizes of Pipe they take	2 in	2 1/4 in	2 1/2 in	3 in	3 1/4 in	4 in	5 in	6 in
Prices	1.00	1.25	1.60	2.00	4.00	6.75	18.00	25.00



ROBBIN'S PIPE WRENCH

Number	1	2	3	4	5	6
Length of Lever	18 in	20 in	22 in	24 in	26 in	28 in
Size of Pipe adapted to	2 to 2 1/2	2 1/2 to 3	3 to 3 1/2	3 1/2 to 4	4 to 4 1/2	4 1/2 to 5
Price	2.00	2.50	3.00	3.50	4.00	4.50



Pipe is not crushed by its use

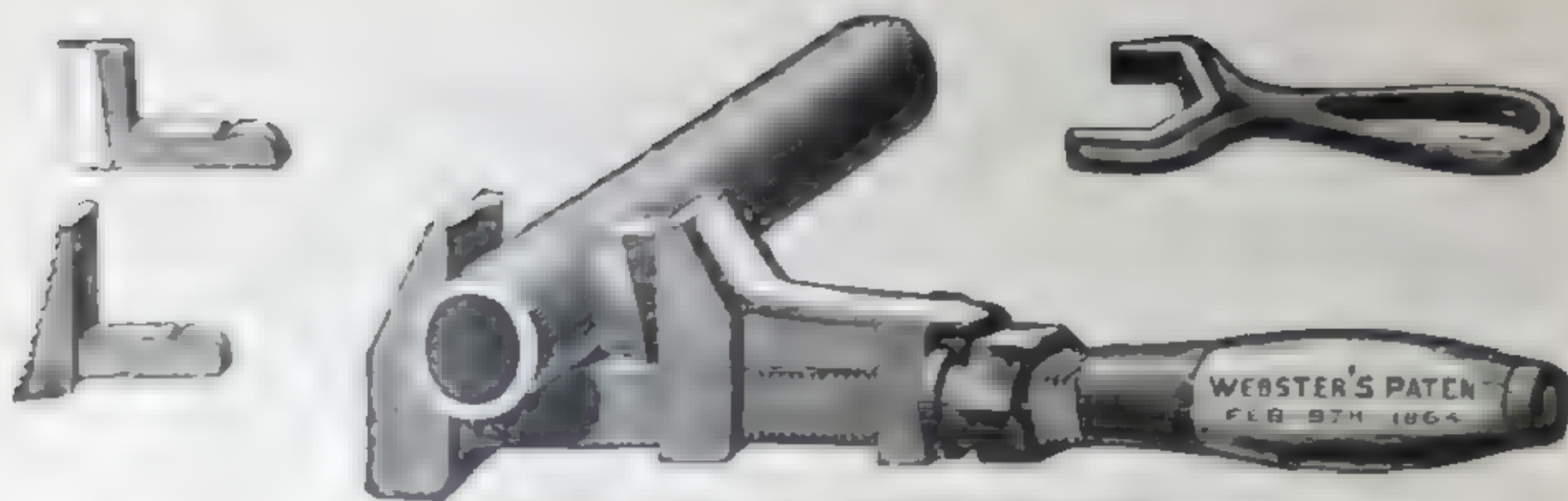
STILLSON'S WRENCH.

Length	6	10	14	18	22	26	30
Price	1.25	2.00	2.50	3.00	4.00	5.00	6.00



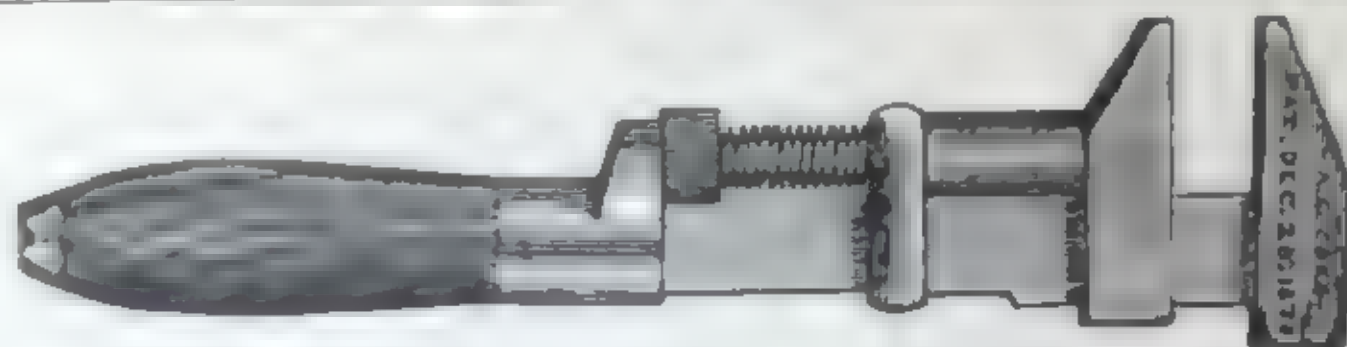
WROUGHT IRON KEY WRENCH.

Length of Jaw	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2
Price, each	.40	.45	.50	.55	.60	.65	.70



WEBSTER'S WRENCH.

12 inch, to Cut off and Screw up Pipe	$\frac{1}{8}$ to $\frac{3}{4}$ inch...	..	\$4.00
15 " " " " "	$\frac{1}{8}$ to $1\frac{1}{2}$ "	..	5.00
18 " " " " "	$\frac{1}{8}$ to 2 "	..	6.00
21 " " " " "	$\frac{1}{8}$ to $2\frac{1}{2}$ "	..	7.00



COE'S SCREW WRENCH.

Size		6	8	10	12	15	18	21 in.
Black	per dozen	9.00	10.00	12.00	14.00	24.00	30.00	36.00
Bright		10.00	11.00	14.00	16.00	26.00	32.00	38.00



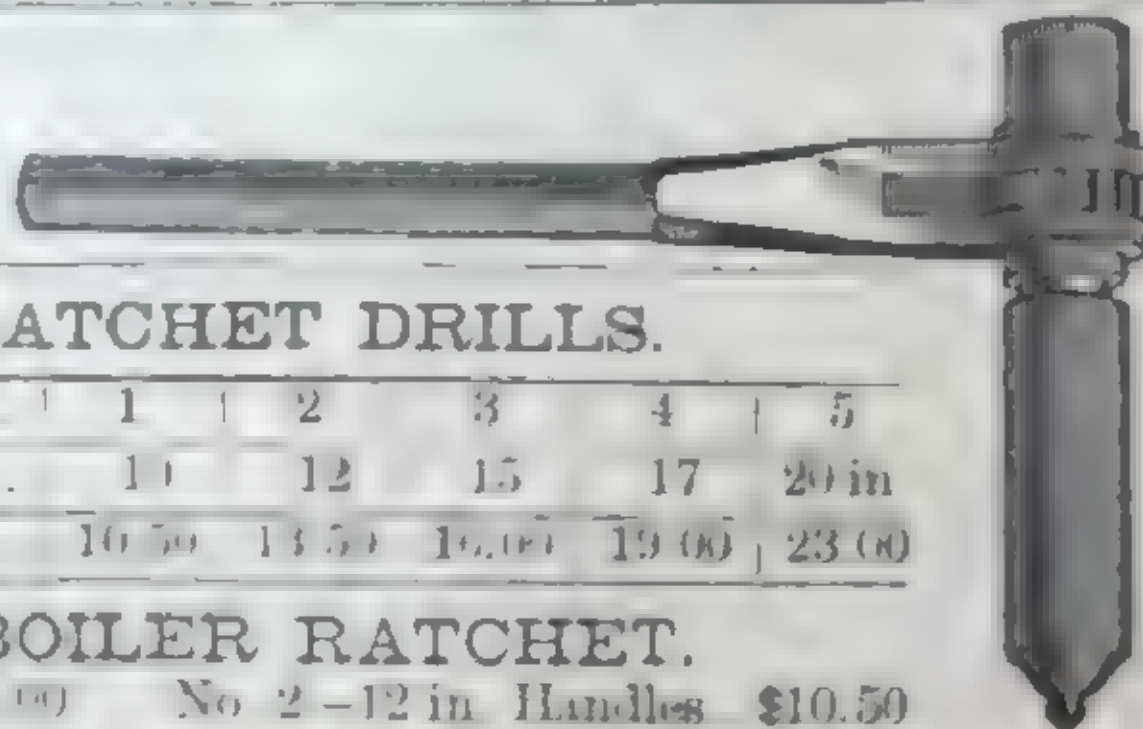
BARWICK'S WRENCH.

Number	0	1	2	3	4	5
Sizes of Pipe they will take	to 1	1	$\frac{1}{2}$ to $1\frac{1}{4}$	1 to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4 in.
Price	2.50	3.00	4.20	5.00	9.00	12.00



BAXTER'S ADJUSTABLE "S" WRENCH.

Length		4	6	8	10	12	15 in.
Price	per dozen	5.00	7.50	10.00	15.00	20.00	25.00



PACKER RATCHET DRILLS.

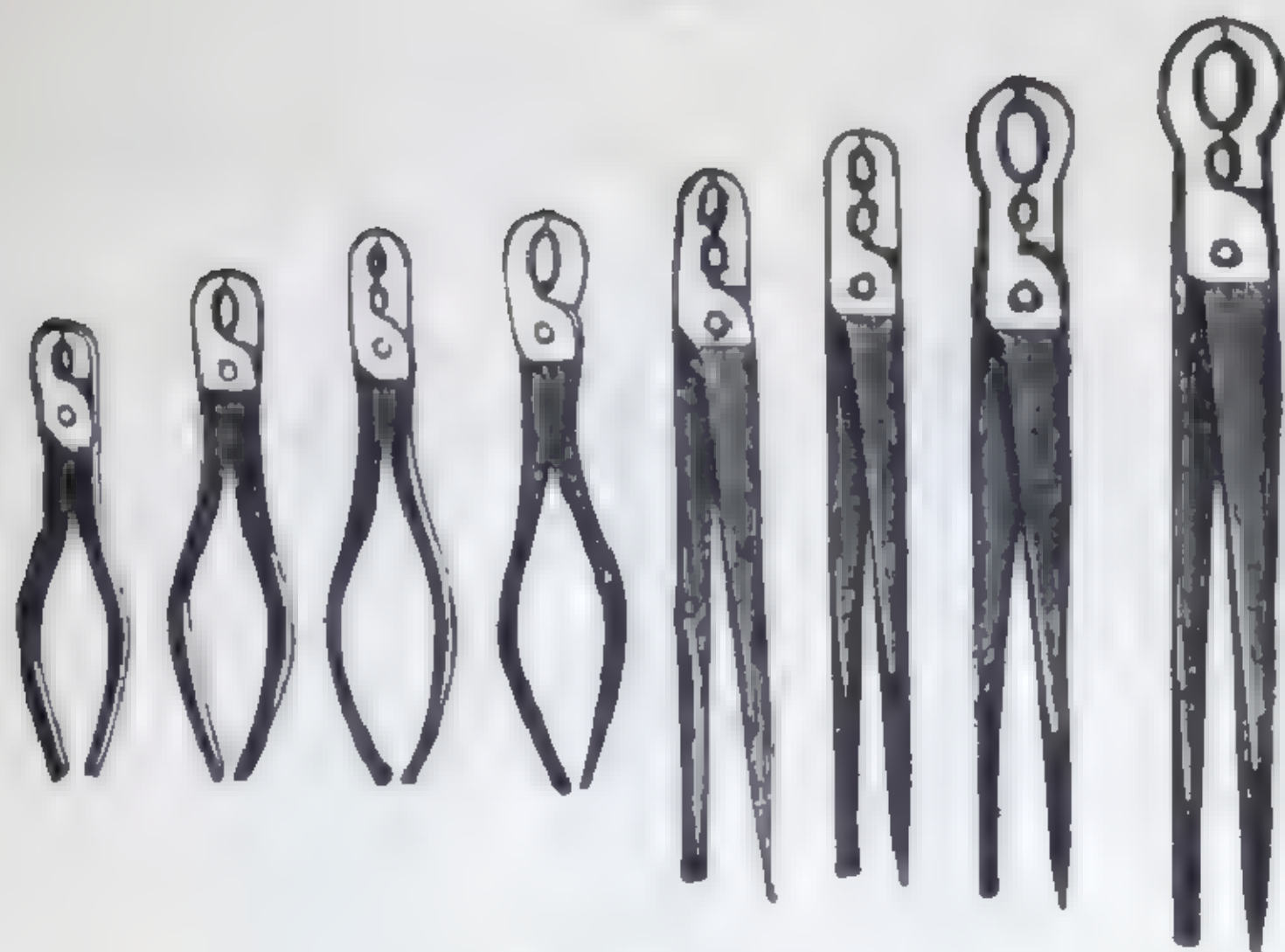
Number	1	2	3	4	5
Length	10	12	15	17	20 in
Price	10.50	13.50	16.00	19.00	23.00

PACKER'S BOILER RATCHET.

No 1 - 10 inch Handles	\$9.00	No 2 - 12 in Handles	\$10.50
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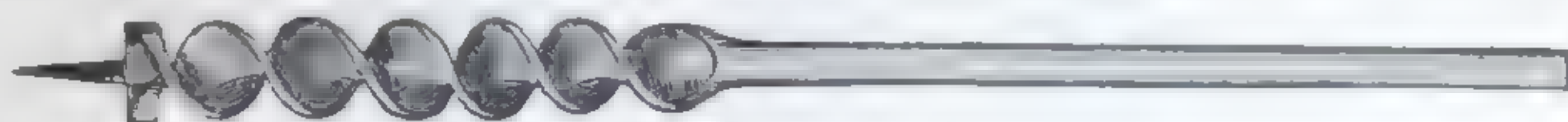
DRILLS.

Size Pipe	$\frac{1}{4}$	$\frac{3}{8}$	1	$\frac{3}{4}$	1 in.	Size Pipe	$1\frac{1}{4}$	1 $\frac{1}{2}$	2	$2\frac{1}{2}$	3 in.
Price	75	75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	4.00	5.00



PLIERS.

Size	5	6	7	8	9	10	11	12	13	14in.
Price, each	60	60	70	80	1 00	1 20	1 30	1 50	1 70	1 80



GAS FITTERS' AUGERS.

Gas Pipe sizes	1 1/4	3/8	1 1/2	1 1/4	1	1 1/4	1 1/2	2 in.
Price, each	1 10	1 50	1 80	2 25	2 50	3 00	3 30	4 00

FLOOR CHISELS.

Width of face	2 1/2	3	3 1/2 in.
Long, each	1 50	1 75	2 00
Short, "	1 25	1 50	1 75

GAS FITTERS' BLOW PIPES.

Length	8	9	10	11	12 in.
Price.....	25	30	35	40	45
" with Bulb	45	50			

GAS FITTERS' PROVING PUMP AND GAUGE.

Pump with Test Gauge, complete	\$18 00
" " Mercury Column "	18 00
" alone.	9 00
Mercury Column, alone	9 00
Test Gauge, "	9 00
" with Ether Cup	11 00
Ether Cups, alone	2 00

GAS FITTERS' TORCHES.

Tin	\$1 25	Brass	\$1 50
Gas Fitters' Cement		per lb	18 cents.

BREAST DRILLS.

Single Gear with 4 Drills	\$3 50
Double " " 4 "	1 50

CROW FOR DRILLING AND TAPPING.

No. 1. For 1 1/2 to 3 inch Pipe	\$10 00
No. 2. For 1 1/2 to 6 " "	13 00
No. 3. For 1 1/2 to 12 " "	16 00

FILES.

MILL AND ROUND.				FLAT AND SQUARE.				HAND, WARDING & PILLAR.				HALF RD. & THREE SQ.			
Inch	Bastard	2d Cut.	Smooth	Inch.	Bastard	2d Cut.	Smooth	Inch.	Bastard	2d Cut.	Smooth	Inch	Bastard	2d Cut.	Smooth.
1	1 80	2 15	2 40	4	2 00	2 40	2 65	4	2 25	2 70	3 00	4	2 50	3 00	3 30
2	2 00	2 40	2 65	5	2 20	2 60	2 90	5	2 50	3 00	3 35	5	2 80	3 35	3 70
3	2 25	2 65	2 95	6	2 50	2 95	3 25	6	2 80	3 30	3 65	6	3 20	3 80	4 15
4	2 55	3 00	3 30	7	2 90	3 40	3 75	7	3 20	3 75	4 15	7	3 70	4 35	4 80
5	2 90	3 40	3 70	8	3 40	4 00	4 35	8	3 70	4 35	4 75	8	4 30	5 00	5 50
6	3 30	3 85	4 20	9	4 00	4 70	5 10	9	4 35	5 10	5 55	9	5 00	5 85	6 40
7	3 50	4 40	4 80	10	4 70	5 45	5 90	10	5 20	6 00	6 55	10	5 80	6 75	7 30
8	4 50	5 20	5 65	11	5 60	6 50	7 05	11	6 30	7 30	7 95	11	6 70	7 75	8 45
9	5 40	6 20	6 75	12	6 70	7 70	8 40	12	7 50	8 60	9 40	12	7 80	9 00	9 75
10	6 30	7 15	8 05	13	8 00	9 15	10 00	13	8 90	10 20	11 00	13	9 10	10 40	11 25
11	7 80	8 90	9 65	14	9 50	10 90	11 80	14	10 50	12 00	13 00	14	10 60	12 10	13 10
12	9 30	10 60	11 45	15	11 20	12 75	13 75	15	12 30	14 00	15 10	15	12 40	14 15	15 25
13	11 00	12 50	13 40	16	13 10	14 85	16 00	16	14 30	16 20	17 50	16	14 50	16 50	17 70
14	12 90	14 60	15 60	17	15 25	17 25	18 45	17	16 60	18 75	20 10	17	16 90	19 10	20 50
15	15 10	16 90	18 10	18	17 65	19 75	21 20	18	19 20	21 50	23 00	18	19 60	22 00	23 50
16	17 60	19 70	21 10	19	20 30	22 75	24 35	19	22 10	24 75	26 50	19	22 60	25 30	27 10
17	20 10	22 85	24 50	20	23 20	26 00	27 85	20	25 30	28 35	30 35	20	26 00	29 10	31 20
Extras.				Extras.				Extras.				Extras.			
Mall Double Cut, advance 1 in. Cant Blunt (Double Cut), advance 2 inches.				(Ginsaw (Single), take Bastard Knife, advance 1 in. High Back Half Rd. (Blunt), advance 2 in.				Cross (Blunt), " 2 " Feather Edge (Blunt), " 2 "							
Mall Narrow Points, " 1 "															
Cross Cut Blunt, " 1 "															

MACHINIST'S HAND TAPS.

Three Taps to set.				
Diam	No. Threads to inch.			Price, each
$\frac{1}{4}$	16	18	& 20	0 45
$\frac{5}{16}$		16	& 18	0 50
$\frac{3}{8}$	14	16	& 18	0 55
$\frac{7}{16}$		14	& 16	0 60
$\frac{1}{2}$	12	13	& 14	0 70
$\frac{9}{16}$		12	& 14	0 80
$\frac{5}{8}$	10	11	& 12	0 90
$\frac{11}{16}$		11	& 12	1 05
$\frac{3}{4}$		10	& 12	1 20
$\frac{13}{16}$		10		1 40
$\frac{7}{8}$		9	& 10	1 60

Taper.
Bottoming.
Plug

Three Taps to set				
Diam	No. threads to inch			Price, each.
$\frac{1}{16}$		9		1 80
1		8		2 00
$1\frac{1}{8}$	7	&	8	2 25
$1\frac{1}{4}$		7		2 60
$1\frac{3}{8}$		6		3 00
$1\frac{1}{2}$		6		3 50
$1\frac{5}{8}$		5		4 20
$1\frac{3}{4}$		5		5 00
$1\frac{7}{8}$		4 $\frac{1}{2}$		5 80
2		4 $\frac{1}{2}$		6 70

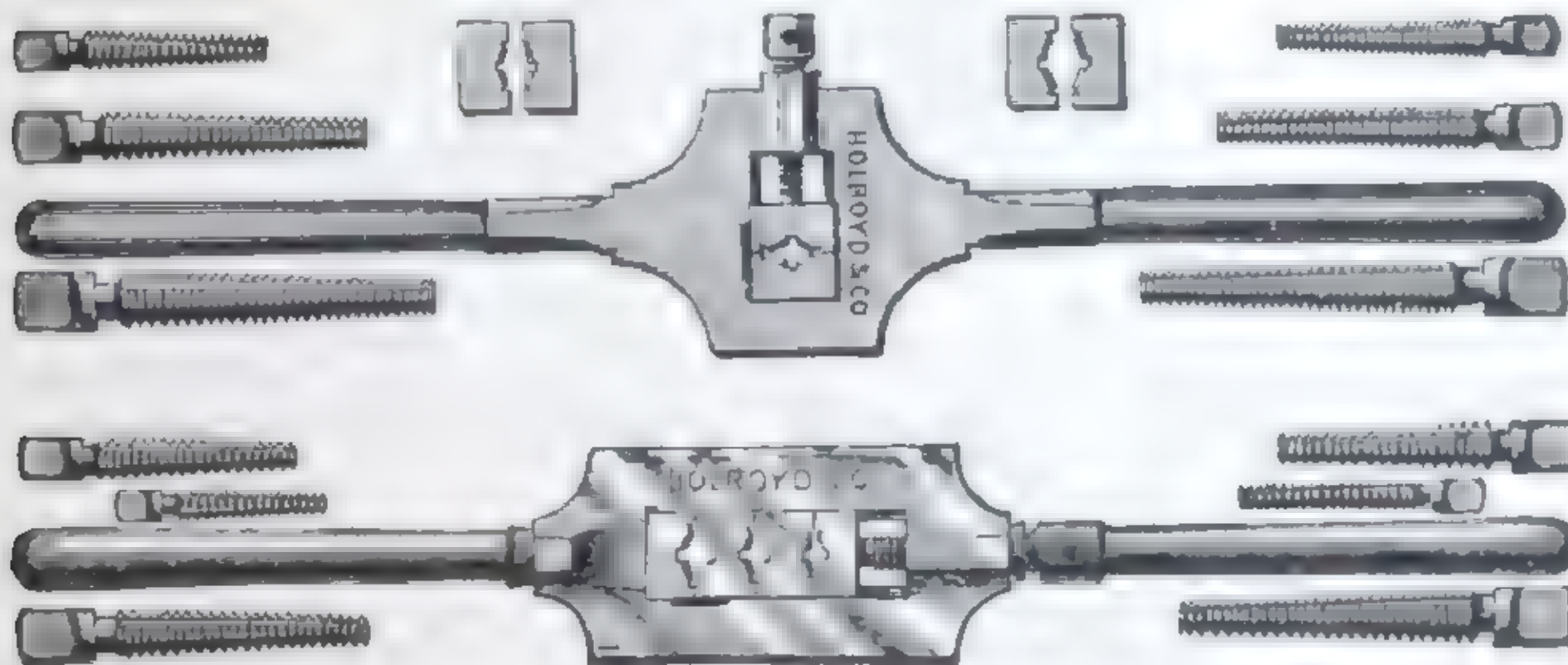
Taper.

Bottoming.

Plug

STOCKS AND DIES.

(Blacksmiths and Machinists.)



No.	Price.	Size.		Laps Dies		No.	Price	Size.		Laps Dies.	
		Left.	Right.					Left.	Right.		
1	60 00	2 to 1 inch	2 to 1 inch	8	4	25	6 50	$\frac{3}{4}$ to $1\frac{1}{2}$ inch	$\frac{3}{4}$ to $\frac{3}{8}$ inch	6	3
2	60 00		2 to $\frac{7}{8}$ "	8	4	27	6 50		$\frac{3}{4}$ to $\frac{1}{2}$ "	6	3
3	45 00	$1\frac{3}{4}$ to $\frac{7}{8}$ "	$1\frac{3}{4}$ to $\frac{7}{8}$ "	8	4	32	5 00	$\frac{1}{4}$ to $\frac{3}{8}$ "	$\frac{1}{4}$ to $\frac{1}{2}$ "	4	4
4	45 00		$1\frac{1}{4}$ to $\frac{3}{4}$ "	8	4	33	4 00	$\frac{1}{4}$ to $\frac{1}{2}$ "	$\frac{1}{4}$ to $\frac{1}{2}$ "	2	2
5	35 00	$1\frac{1}{2}$ to $\frac{3}{4}$ "	$1\frac{1}{2}$ to $\frac{3}{4}$ "	8	4	34	4 50		$\frac{1}{4}$ to 5-16 "	3	3
5 $\frac{1}{2}$	35 00		$1\frac{1}{2}$ to $\frac{3}{4}$ "	8	4	35	4 00		$\frac{1}{4}$ to $\frac{3}{8}$ "	2	2
6	20 00	$1\frac{1}{2}$ to 1 "	$1\frac{1}{2}$ to 1 "	4	2	37	4 25		$\frac{1}{4}$ to 3-16 "	6	3
7	12 00	$1\frac{1}{4}$ to $\frac{7}{8}$ "	$1\frac{1}{4}$ to $\frac{5}{8}$ "	6	3	38	4 50	$\frac{5}{8}$ to 7-16 "	$\frac{5}{8}$ to 5-16 "	6	3
9	12 0		$1\frac{1}{4}$ to $\frac{1}{2}$ "	6	3	41	3 25		$\frac{1}{2}$ to $\frac{1}{4}$ "	6	3
11	10 00	$1\frac{1}{4}$ to $\frac{7}{8}$ "	$1\frac{1}{4}$ to $\frac{5}{8}$ "	4	3	42	3 50	$\frac{1}{2}$ to 5-16 "	$\frac{1}{2}$ to 3-16 "	6	3
15	10 00		$1\frac{1}{4}$ to $\frac{1}{2}$ "	5	3	45	5 50	$\frac{5}{8}$ to 7-16 "	$\frac{5}{8}$ to 5-16 "	6	3
17	9 00	1 to $\frac{3}{4}$ "	1 to $\frac{1}{2}$ "	6	3	47	5 50		$\frac{5}{8}$ to $\frac{1}{4}$ "	6	3
19	9 00		1 to $\frac{3}{8}$ "	6	3	49	4 50	$\frac{1}{2}$ to 5-16 "	1 to $\frac{1}{4}$ "	6	3
21	6 00	1 to $\frac{3}{4}$ "	1 to $\frac{1}{2}$ "	4	3	51	4 50		1 to 3-16 "	6	3
23	5 00		1 to $\frac{3}{8}$ "	3	3	53	2 75		5-16 to 1-16 "	4	1

MORSE'S PATENT TWIST DRILLS on hand, or furnished to order.

I KEEP IN STOCK.

OR FURNISH TO ORDER, AT MANUFACTURERS' PRICES.

BLACKSMITHS' TOOLS.

TONGS, FLATTERS, FULLERS, SWAGES, HARDIES, PUNCHES,
CREASERS, CHISELS, CUPPING TOOLS, SWAGE BLOCKS,
ANVILS, SLEDGES, HAMMERS, TUYERES,
BELLOWS, PORTABLE FORGES, Etc.

MACHINISTS' TOOLS

of every description.

DRILL AND LATHE CHUCKS,
LATHE DOGS AND CLAMPS,
BOLT CUTTERS, MILLING MACHINES,
DRILLS, DRILLING MACHINES,
For Hand or Power.
DIES, TAPS, REAMERS. WRENCHES,
HAMMERS, CHISELS, FILES,
COMPASSES, DIVIDERS, CALIPERS, Etc.

BOILER MAKERS' TOOLS.

TUBE EXPANDERS,
PUNCHES, HAND AND POWER,
SHEARS, " " "
ROLLS, " " "
JACK SCREWS, HYDRAULIC JACKS,
HAMMERS, SLEDGES, FORGES,
ETC., ETC.

PORTABLE FORGES.

EMPIRE, PATTERSON'S, ROOT'S, KEYSTONE AND QUEEN'S.

FAN BLOWERS.

STURTEVANT'S, ROOT'S AND KEYSTONE.
EXHAUST FANS, &c.

MACHINE BOLTS.—With Square Heads and Nuts.

Length.....	Diameter,	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	1
$1\frac{1}{2}$ inches.....	Price per Hundred	2 80	3 20	3 60	4 60	5 00	7 20	10 50	14 00	22 00
2	"	2 90	3 35	3 80	4 90	5 30	7 70	11 10	15 80	23 10
$2\frac{1}{2}$	"	3 00	3 50	4 00	5 20	5 60	8 20	11 70	16 60	24 20
3	"	3 10	3 65	4 20	5 50	5 90	8 70	12 30	17 50	25 30
$3\frac{1}{2}$	"	3 20	3 80	4 40	5 80	6 20	9 20	12 90	18 30	26 40
4	"	3 30	3 95	4 60	6 10	6 50	9 70	13 50	19 20	27 60
$4\frac{1}{2}$	"	3 40	4 10	4 80	6 40	6 80	10 20	14 10	20 00	28 50
5	"	3 50	4 25	5 00	6 70	7 10	10 70	14 70	20 90	29 70
$5\frac{1}{2}$	"	3 60	4 40	5 20	7 00	7 40	11 20	15 30	21 70	30 80
6	"	3 70	4 55	5 40	7 30	7 70	11 70	15 90	22 60	31 90
$6\frac{1}{2}$	"	3 80	4 70	5 60	7 60	8 00	12 20	16 50	23 40	33 00
7	"	3 90	4 85	5 80	7 90	8 30	12 70	17 10	24 30	34 10
$7\frac{1}{2}$	"	4 00	5 00	6 00	8 20	8 60	13 20	17 70	25 10	35 20
8	"	4 10	5 15	6 20	8 50	8 90	13 70	18 30	26 00	36 30

Bolts with Hex. Heads or Hex. Nuts, 10 per cent. extra. If both Hex. Heads and Hex. Nuts, 20 per cent. extra.

LAG SCREWS.

Length.....	Diameter	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	1	$1\frac{1}{2}$	2
$1\frac{1}{4}$ inches.....	Price, per Hundred	2 70	3 10	4 00	4 30	.....	.....	.....	.....
2	"	2 90	3 30	4 25	4 60	6 50	.....	.....	.....
$2\frac{1}{2}$	"	3 10	3 50	4 50	4 90	6 90	10 00	.....	.....
3	"	3 20	3 70	4 75	5 20	7 30	10 50	15 00	.....
$3\frac{1}{2}$	"	3 30	3 90	5 00	5 50	7 70	11 00	15 75	21 60
4	"	3 70	4 10	5 25	5 80	8 10	11 50	16 50	22 50
$4\frac{1}{2}$	"	3 90	4 30	5 50	6 10	8 50	12 00	17 25	23 40
5	"	4 10	4 50	5 75	6 40	8 90	12 50	18 00	24 25
$5\frac{1}{2}$	"	4 30	4 70	6 00	6 70	9 30	13 00	18 75	25 25
6	"	4 50	4 90	6 25	7 00	9 70	13 50	19 50	26 25
7 .....	"	.....	.....	6 75	7 60	10 50	14 50	21 00	28 25
8 .....	"	.....	.....	7 25	8 20	11 30	15 50	22 50	30 25
9 .....	"	.....	.....	7 75	8 80	12 10	16 50	24 00	32 25
10 .....	"	.....	.....	.....	9 40	12 90	17 50	25 50	34 25
11 .....	"	.....	.....	.....	10 00	13 70	18 50	27 00	36 25
12 .....	"	.....	.....	.....	10 60	14 50	19 50	28 50	38 25

TAP BOLTS AND SET SCREWS.

	Size	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	1
Per Hundred	$1\frac{1}{2}$	2 50	2 80	3 30	3 90	4 50	6 60	6 60	8 90
"	$1\frac{3}{4}$	2 60	2 90	3 40	4 00	4 70	6 80	6 80	9 20
"	2	2 70	3 00	3 50	4 10	4 90	7 00	7 00	9 50
"	$2\frac{1}{4}$	2 80	3 10	3 60	4 20	5 10	7 20	7 20	9 80
"	$2\frac{1}{2}$	2 90	3 20	3 70	4 30	5 30	7 40	7 40	10 10
"	$2\frac{3}{4}$	3 00	3 30	3 80	4 40	5 50	7 60	7 60	10 40
"	3	3 10	3 40	3 90	4 50	5 70	7 80	7 80	10 70

With Hexagon Heads, 10 per cent. extra. Blank Bolts, Set Screws and Tape Bolts, 5 per cent. less than the above list. Larger sizes made to order.

Carriage Bolts, Bolt Ends, Stove Bolts, Nuts, Washers, Machine and Wood Screws, Rivets, Turn Buckles, etc.

WASHERS.

Diameter	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
Size of Hole	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{13}{16}$
Thickness, W. G.	18	16	16	16	14	14	14	12	12	10	10
Size of Bolt	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$
Price, per lb. ....	.28	.24	.21	.17	.16	.15	.13	.13	.13	$12\frac{1}{2}$	$12\frac{1}{2}$

PLUMBERS' GOODS.

Standard Cast Iron Drain Pipe.

In. Diameter	2	3	4	5	6	7	8	10
Price, per foot	0 24	0 30	0 50	0 50	0 60	1 00	1 25	2 00
Double Hub, price, per 5 ft. length	1 50	1 80	2 10	2 80	3 30	5 10	6 75	

Fittings, Traps, Etc.

Size ..	2	3	4	5	6	7	8	10
Quarter Bends	0 40	0 55	0 65	1 00	1 20	2 25	3 00	4 00
" " with 2 inch Outlets for Connections, 30 cts. 3 in. 40 cts. and 4 in. 50 cts. extra.								
Double Hub Quarter Bends	0 70	0 85	0 95	1 30	1 50			
Sixth Bends	0 40	0 55	0 65	1 00	1 20		3 00	
Eighth Bends	0 35	0 45	0 60	0 90	1 05	2 00	2 75	3 75
Putn Bends	0 65	0 85	1 25	2 00	3 00			
Long Bends 18 inches in clear			1 50	2 25	2 50		5 50	
T Branches	0 40	0 55	0 65	1 20	1 40	2 75	3 25	6 50
Long T Branches, 24 inches in the clear			2 00	2 75	3 50			
Cross Head Branches			2 50	3 50	4 50			
Half Y Branches	0 80	1 10	1 25	1 60	2 50	4 00	5 00	8 00
Double Half Y Branches	0 60	0 80	1 20	1 60	2 00		5 00	
Y Branches	1 00	1 25	1 65	2 25	3 00		6 00	
Double Y Branches	0 60	0 80	1 20	1 60	2 00	4 00	5 00	7 00
Anti-Siphonic Y Branches	1 00	1 25	1 65	2 25	3 00	5 00	6 00	9 00
Man for Branch, 6 x 4	1 00	1 50	2 75	1 00	5 00			
Ventilating Branch					5 00			
Offsets to offset 2 inches	0 80	1 25	1 50	2 00	3 00			
4	0 40							
6	0 70	0 75	0 85	1 40	2 00			
8	0 60	0 80	1 00	1 60	2 25			
10	0 70	0 90	1 15	1 80	2 40			
12			1 25					
14	0 85	1 00	1 40	2 00	2 75			
16			1 65					
20		1 40	1 80	2 40				
with 2 in. Outlet for Connection, 50 cts. extra			2 25					
Double Hubs	0 30	0 45	0 65	0 75	0 80	1 40	1 50	2 50
Single Hubs	0 25	0 35	0 40	0 60	0 75	1 25	1 40	2 50
Reducers			0 50	0 70	0 80	1 30	1 40	2 50
Increasers					1 25	1 60	2 00	2 75
Straight Seams	0 40	0 45	0 65	0 75	0 80	1 10	1 50	2 50
Tees and Ys and Covers	0 40	0 50	0 60	0 70	0 80		2 25	
Tees	0 15	0 25	0 30	0 35	0 45			
T Saddle Hubs	0 10	0 50	0 60	0 75	1 10	1 40	1 50	2 25
Pipe Stoppers	0 15	0 25	0 30	0 35	50	0 90	1 20	2 00
Ends	0 45	0 55	0 70	1 00	1 40		2 25	
with Outlets	0 75	0 90	1 10	1 45	1 90			
Y and Half Y Saddle Hubs	0 85	0 55	0 70	0 90	1 25			
S Half S and Three Quarter S Traps	0 80	1 25	1 50	3 00	3 75			
Traps, with Outlet in Heel or Side, 50 cts. extra								
Running Traps	0 80	1 25	1 50	3 00	3 75	7 00	9 00	30 00
with Hub for Vent		1 75	2 00	3 50	4 25		10 00	
Double Hubs for Vent			2 70	4 00	4 75		11 00	
Pipe Rests	0 30	0 40	0 50	0 60	0 70	1 00	1 10	1 75
Ventilating Caps	0 40	0 60	0 80	1 10	1 50			
Plug Irons	0 50	1 15	1 30	1 50	1 80			
Hocks	0 08	0 10	0 12	0 15	0 20		0 40	
Leader Pipes, 4 feet 6 inches long		3 00	4 00	5 00	6 00			

Enameled Pipe and Fittings.

Illustrated Catalogue of Cast Iron Plumbing Goods furnished on application.

EXTRA HEAVY CAST IRON SOIL PIPE AND FITTINGS.

Internal Diameter	2	3	4	5	6	7	8
Pipe, per foot	0 35	0 55	0 75	1 00	1 20	1 75	2 25
Double Hub Pipe, per length of 5 feet	2 05	3 00	4 07	5 31	6 30	9 75	12 75
Quarter Bends	0 50	0 70	1 10	1 35	1 75	3 00	4 00
" with 2 in. Outlets 30c.; 3 in. 40c.; and 4 in. 50c. extra							
Double Hub Quarter Bends	0 80	1 00	1 40	1 65	2 05		
Double Hub Eighth Bends			1 50				
Sixth Bends	0 50	0 70	1 10	1 35	1 75		4 00
Eighth Bends	0 45	0 65	1 00	1 20	1 40	2 75	3 75
Sixteenth Bends	0 75	1 10	1 75	2 50	3 50		
Return Bends			2 25	2 75	3 25		
Long Bends, 18 inches in clear	0 60	0 80	1 20	1 50	1 90	4 25	5 50
T Branches	0 80						
T & Y Branches, 2 x 2							
" 3 x 3		1 25					
" 3 x 2							
" 4 x 4			1 70				
" 4 x 3							
" 4 x 2							
" 5 x 5							
" 5 x 4				2 20			
" 5 x 3							
" 5 x 2							
" 6 x 6, 6 x 5, 6 x 4, 6 x 3, 6 x 2							
Long T Branches, 21 inches in the clear			3 10	4 00	5 00		
" 30 " "			3 75	5 00	6 75		
" 36 " "			4 50	6 00	8 00		
Cross Head Branches	1 00	1 40	1 75	2 00	3 25	6 00	7 00
Half Y Branches	0 80	1 25	1 60	2 25	3 25		7 50
Double Half Y Branches	1 25	1 60	1 90	3 00	4 00		9 00
Long Y Branches, 4 x 4, 21 inches in clear			3 70				
" 4 x 4, 30 " "			4 75				
" 4 x 4, 36 " "			5 25				
" 5 x 4, 24 " "				4 75			
" 5 x 4, 30 " "				5 75			
" 5 x 4, 36 " "				6 75			
" 6 x 4, 24 " "					6 00		
" 6 x 4, 30 " "					7 25		
" 6 x 4, 36 " "					8 00		
Y Branches	0 80	1 25	1 60	2 25	3 25	6 00	7 50
Y Branch, Running Trap, 4 x 4			4 00				
" 5 x 4				5 50			
" 6 x 4					7 00		
Double Y Branches	1 25	1 60	1 90	3 00	4 00	7 00	9 00
Anti-Siphonic Y Branches	1 40	2 00	3 70	5 50	7 00		
Ventilating Branch	1 25	1 75	2 50	2 75	4 00		8 50
Offsets, to offset 2 inches	0 60						
" 4 " "	0 60	1 10	1 25	1 80	2 50		
" 6 " "	1 00	1 20	1 40	2 00	3 00		
" 8 " "	1 10	1 35	1 50	2 25	3 25		
" 10 " "			1 70				
" 12 " "	1 25	1 40	1 80	2 50	3 50		
" 14 " "		1 70	2 00				
" 16 " "		1 80	2 25	3 00			
" 18 " "		2 00	2 80				
" 20 " "			3 00	3 75			
" with 2 in. Outlet for Connection, 30c. extra.							
Double Hubs	0 40	0 55	0 75	0 90	1 15	2 00	3 25
Single Hubs	0 35	0 40	0 50	0 75	1 00	2 00	3 00
Reducers			0 70	0 80	0 90	2 00	2 20
Increases		1 00	1 25		1 75	2 25	2 75
Straight Sleeves	0 40	0 55	0 75	0 90	1 15	2 00	3 25
T-Saddle Hubs	0 40	0 65	0 80	1 00	1 40	2 00	2 75
Pipe Stoppers	0 25	0 35	0 40	0 50	0 65	0 25	1 50
Bands	0 90	1 00	1 50	2 00	2 75		4 00
" with Outlets	1 50	1 75	2 00	2 75	3 50		5 00
Y and Half Y Saddle Hubs	0 45	0 70	0 90	1 15	1 75		3 00
S and Half S and Three Quarter S Traps	1 25	1 75	2 50	4 00	5 00		
Traps, with Outlet in Heel or Side or Vent, 50c. extra.							
Running Traps	1 25	1 75	2 50	4 00	5 00	9 00	12 00
" with Hub for Vent			3 00	4 50	5 50		13 00
" with Double Hubs for Vent			3 50	5 00	6 00		14 00
Pipe Rests	0 40	0 55	0 65	0 80	1 00	1 50	1 75
Ventilating Caps	0 40	0 60	0 80	1 10	1 50		
Roof Irons	0 90	1 15	1 90	1 50	1 80		
Hooks	0 08	0 10	0 12	0 16	0 20		
Weight per foot of Extra Pipe							
Pounds	5 1/2	9 1/2	13	17	20	27	33 1/2

All Pipe and Fittings are furnished Tar-Coated, unless ordered Plain.

BRASS WORK.

GROUND KEY. PLAIN BIBBS. PER DOZEN.

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
For Lead Pipe, Rough	10 00	12 00	15 00	18 00	24 00	36 00	60 00	84 00	130 00	170 00
Finished	9 00	11 00	14 00	16 00	21 00	32 00	52 00	72 00	120 00	150 00
Screw Tail, Finished	11 00	13 50	17 00	20 00	27 00	41 00	68 00	94 00	145 00	195 00
Rough	10 00	12 50	16 00	18 00	22 00	37 00	60 00	82 00	135 00	175 00
For Iron Pipe, Finished	11 00	13 00	16 00	19 00	26 00	39 00	64 00	78 00	...	180 00
Rough	10 00	12 00	15 00	17 00	23 00	35 00	56 00	...	...	160 00
Flange and Thimble, Finished			24 00	28 00	40 00	53 00	...	...	...	...
Nickel Plated			27 50	31 50	44 00	57 00	...	...	...	...
Silver			36 00	43 00	58 00	81 00	...	...	...	...

HOSE BIBBS.

For Lead Pipe, Finished			16 00	19 00	26 00	39 00	64 00	90 00	140 00	180 00
Rough			15 00	17 00	23 00	35 00	56 00	78 00	130 00	160 00
For Iron Pipe, Finished			17 00	20 00	28 00	42 00	68 00	96 00	...	190 00
Rough			16 00	18 00	25 00	38 00	60 00	84 00	...	170 00
Flange and Thimble, Finished			25 00	29 00	42 00	56 00	...	...	...	...
Nickel Plated			28 50	32 50	46 00	60 00	...	...	...	...
Silver			51 00	44 00	60 00	84 00	...	...	...	...

WASH TRAY BIBBS.

For Lead Pipe, Finished		13 00	16 00	20 00	26 00	38 00	...	...	...	...
For Iron Pipe, Finished		14 00	17 00	21 00	28 00	41 00	...	...	...	...
Flange and Thimble Finished			25 00	30 00	42 00	55 00	...	...	...	...

BATH BIBBS.

For Lead Pipe, Finished			20 00	27 00	40 00	...	...	...	...	...
Nickel Plated			23 50	29 50	42 50	...	...	...	...	...
Silver			29 00	39 00	55 00	...	...	...	...	...
For Iron Pipe, Finished			21 00	28 00	42 00	...	...	...	...	...
Nickel Plated			23 50	30 50	45 00	...	...	...	...	...
Silver			30 00	40 00	52 00	...	...	...	...	...
Flange and Thimble, Finished			29 00	37 00	56 00	...	...	...	...	...
Nickel Plated			32 50	40 50	60 00	...	...	...	...	...
Silver			41 00	52 00	74 00	...	...	...	...	...

PLAIN STOPS.

For Lead Pipe, Finished	10 50	12 50	15 50	18 50	25 00	37 00	62 00	86 00	134 00	175 00
Nickel Plated	12 50	14 50	18 00	21 00	27 50	40 00	...	...	...	...
Silver	17 50	20 50	24 50	50 50	40 00	63 00	...	...	...	...
For Iron Pipe, Finished	11 50	13 50	16 50	20 50	27 00	40 00	...	...	...	...
Nickel Plated	13 50	15 5	19 00	23 00	29 50	43 00	...	...	...	...
Silver	18 50	21 50	25 50	32 50	42 00	66 00	...	...	...	...

SHOWER STOPS.

For Lead Pipe, Finished		14 00	17 00	20 00	27 00	40 00	...	...	...	...
Nickel Plated		16 00	19 00	22 50	29 00	43 00	...	...	...	...
Silver		22 00	26 00	32 00	42 00	66 00	...	...	...	...
Flange and Handle, Finished			24 00	29 00	36 00	...	...	...	...	...
Nickel Plated			26 50	31 50	38 00	...	...	...	...	...
Silver			33 00	41 00	51 50	...	...	...	...	...
For Iron Pipe, Finished		15 00	18 00	22 00	29 00	42 00	...	...	...	...
Nickel Plated		17 00	20 50	24 50	31 50	46 00	...	...	...	...
Silver		23 00	27 00	34 00	44 00	69 00	...	...	...	...

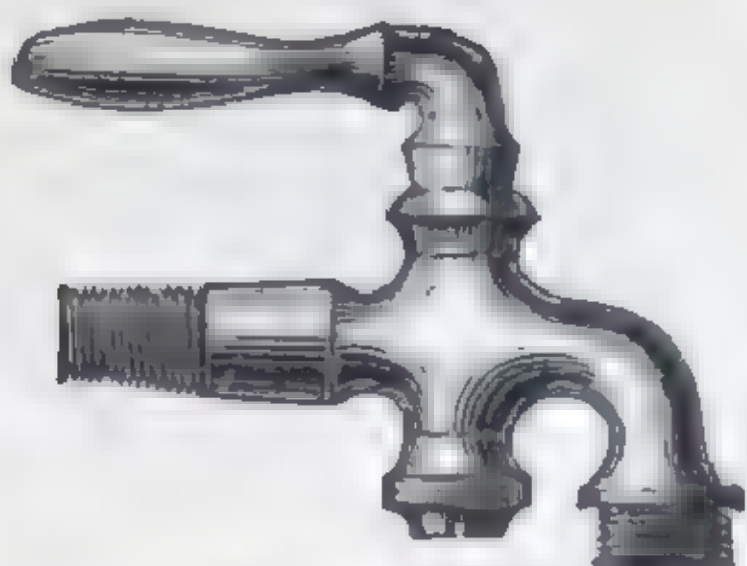
BALL COCKS.

For Lead Pipe		10 00	12 00	15 00	19 50	30 00	50 00	...	90 00	136 00
For Iron Pipe		11 00	13 00	16 00	21 00	32 00	54 00	...	96 00	144 00

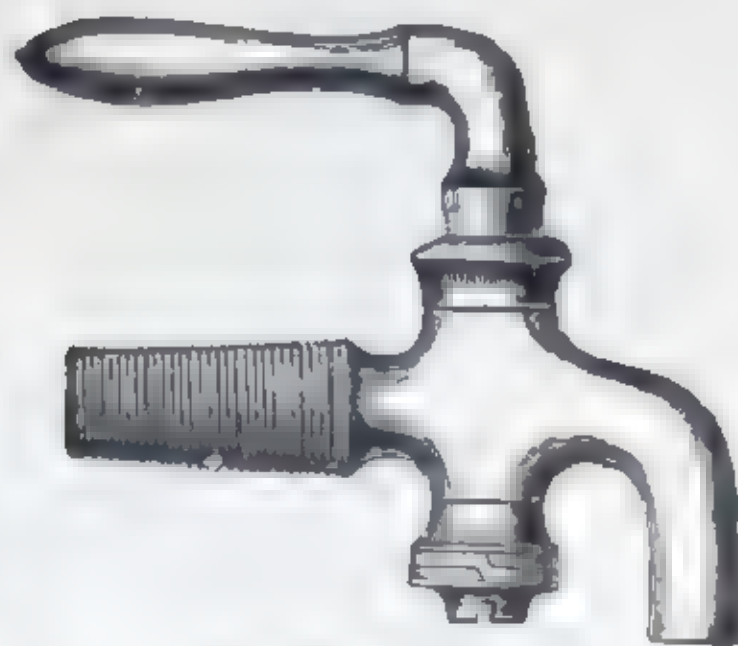
GROUND KEY WORK.



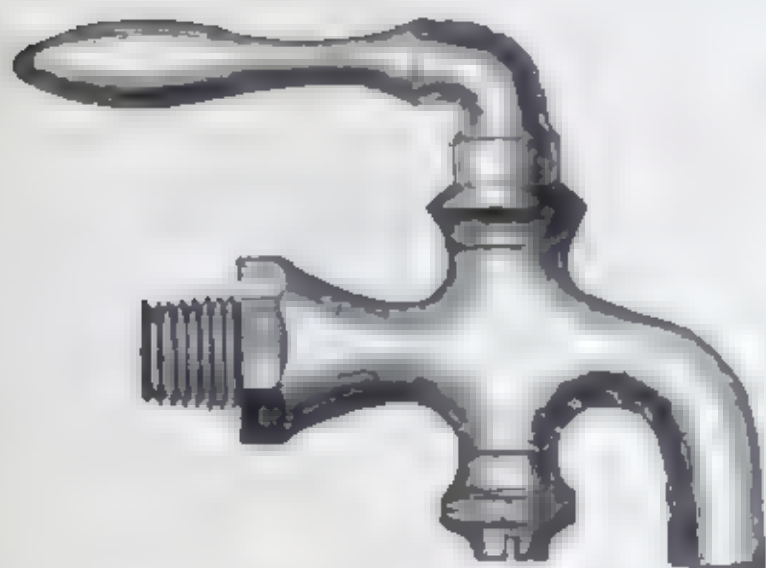
Plain Bibb.



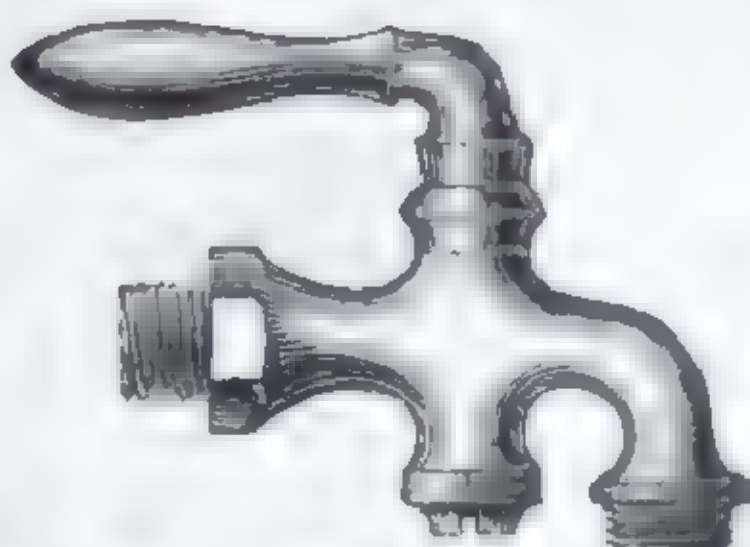
Hose Bibb.



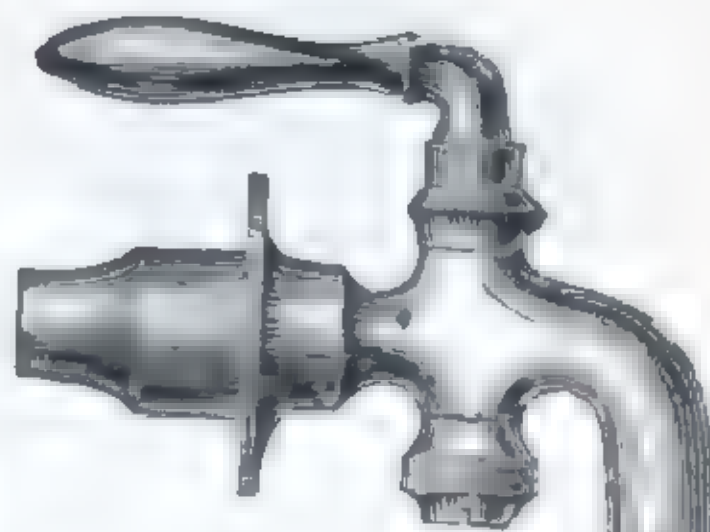
Screw Tail.



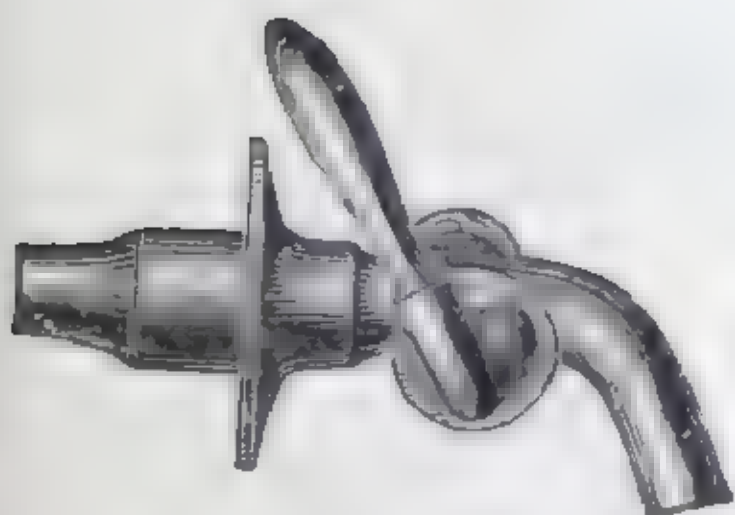
Plain Bibbs, for Iron Pipe.



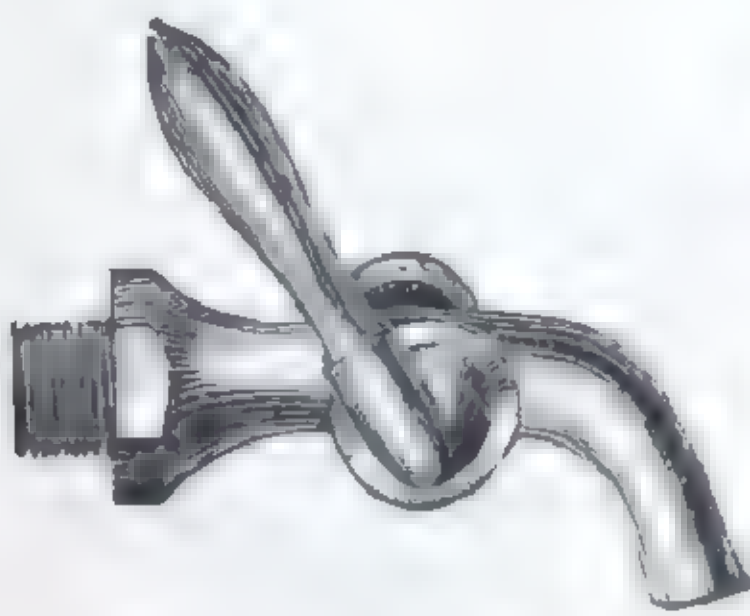
Hose Bibb, for Iron Pipe.



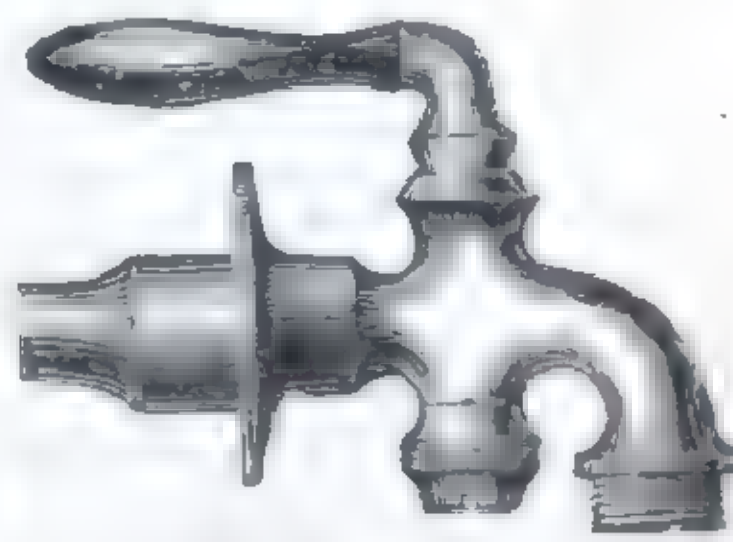
Plain Bibb, Flange and Thimble.



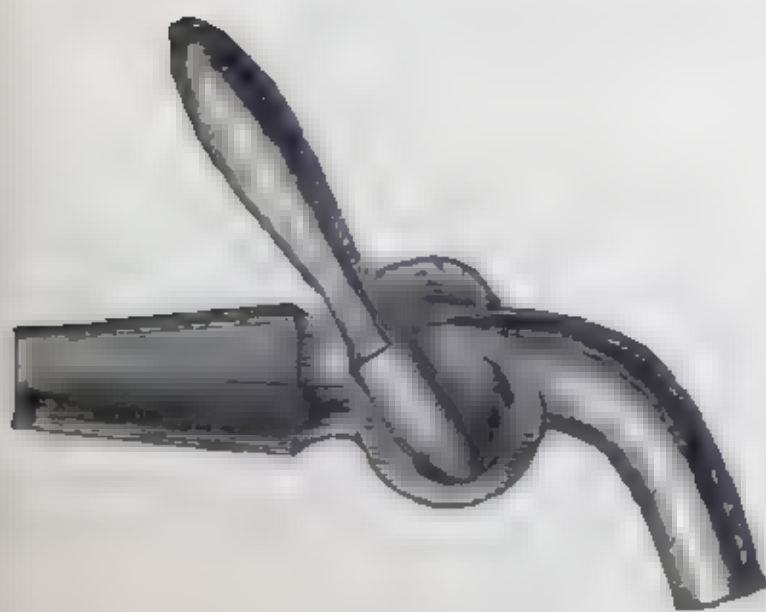
Wash Tray Bibb, Flange and Thimble.



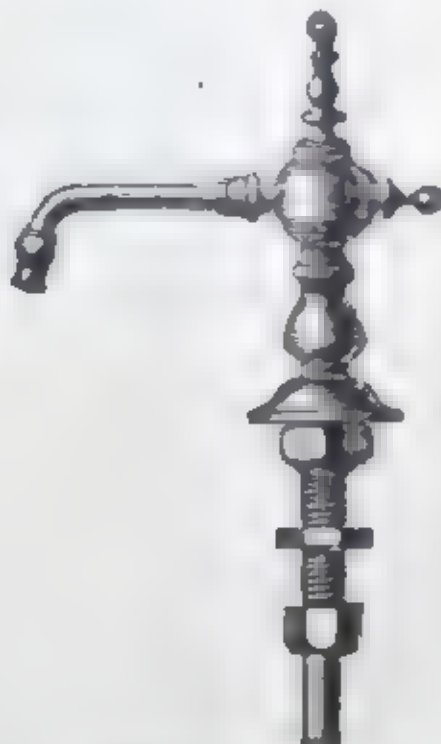
Wash Tray Bibb, for Iron Pipe.



Hose Bibb, Flange and Thimble.



Wash Tray Bibb.



Basin Cock.



Counter Cock.

ROUGH STOPP, ETC.—Tee or Lever Handle.

Size.	Per Dozen.									
	1	2	3	4	5	6	7	8	9	10
For Lead Pipe,	7 00	9 00	12 00	15 00	19 00	28 00	46 00	64 00	85 00	110 00
" Iron	8 00	10 00	13 00		21 00	31 00	50 00	70 00		120 00
" Lead Pipe with waste		10 00	13 00	16 00	20 50	30 00	49 00	68 00		170 00
" Iron		11 00	14 00		22 50	33 00	53 00	74 00		130 00
Roundway, for Lead Pipe,		15 00	17 00	20 00	25 00	44 00	70 00	100 00	140 00	180 00
" Iron		16 00	18 00		27 00	47 00	74 00	106 00		190 00
" " and waste,		16 00	18 00	21 00	26 50	46 00	73 00	104 00	148 00	190 00
" Iron		17 00	19 00		28 50	49 00	77 00	110 00		200 00
For Lead and Iron Pipe,		9 50	12 50	16 00	20 00	29 50				
" " and waste,		10 50	13 50	17 00	21 50	31 50				
Hose Stops,					24 00	36 00	56 00	84 00	136 00	168 00
Street Washer and Stop for Iron Pipe,			36 00		46 00	66 00			184 00	235 00
				36 00						300 00

HYDRANT COCKS.

For Lead Pipe,	14 00	16 00	21 00	33 00	56 00
" Iron	16 00		24 00	39 00	60 00
" Lead and Iron Pipe,	15 00	16 50	23 00	36 00	

CORPORATION COCKS.

No. 1, 2, 3, 4 and 6,	.	.	.
No. 5,	.	.	.

HOPPER COCKS.

[illegible]

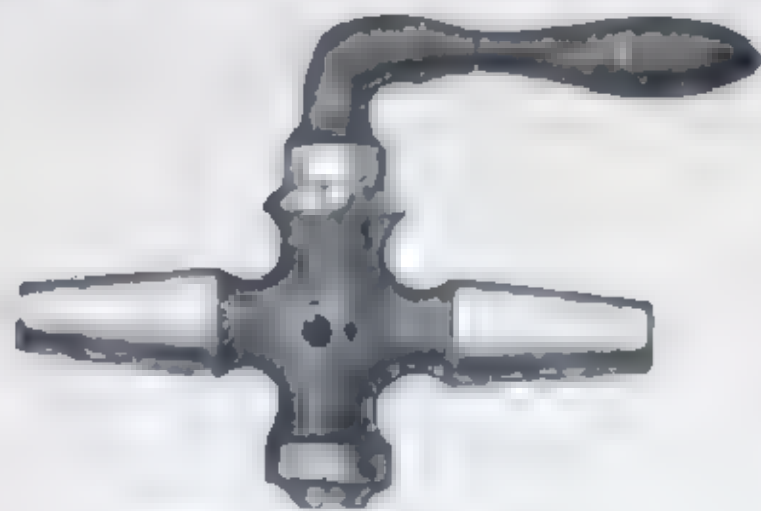
BROOKLYN HEAVY STOPS.—Tee or Lever Handle.

Stop for Lead Pipe,	28 00	48 00	78 00	102 00
Stop and Waste for Lead Pipe,	28 00	48 00	78 00	102 00
Stop for Iron Pipe,	32 00		86 00	108 00
Stop and Waste for Iron Pipe,	32 00		86 00	108 00

ROUGH STOPS.



Plain.



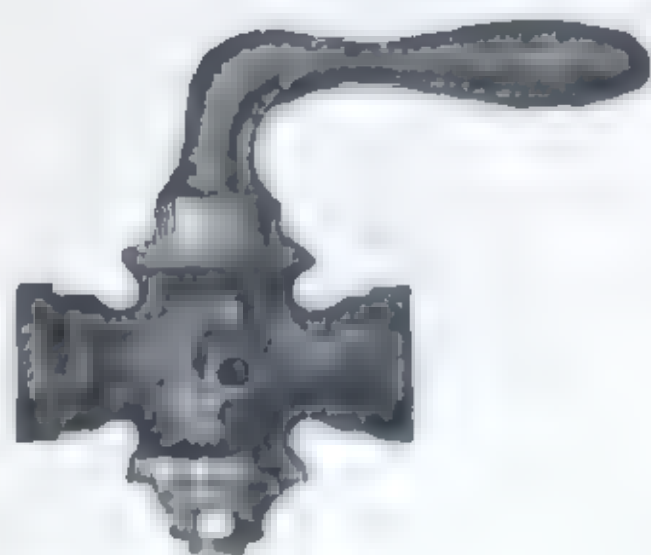
With Waste.



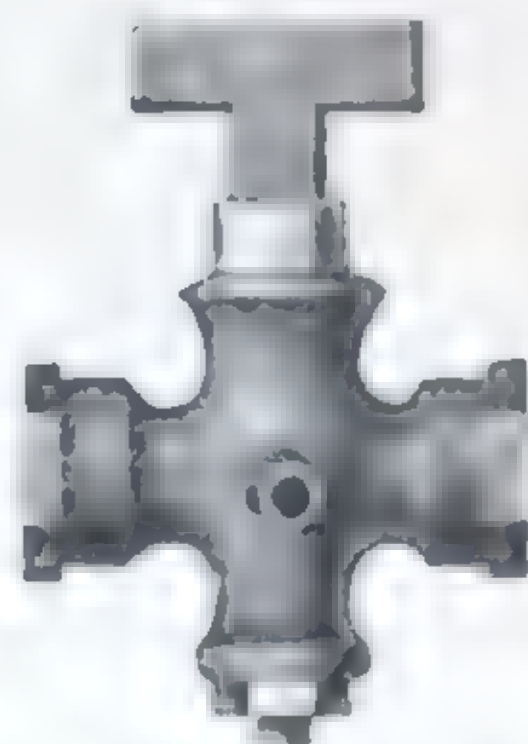
For Iron and Lead.



Iron Pipe.

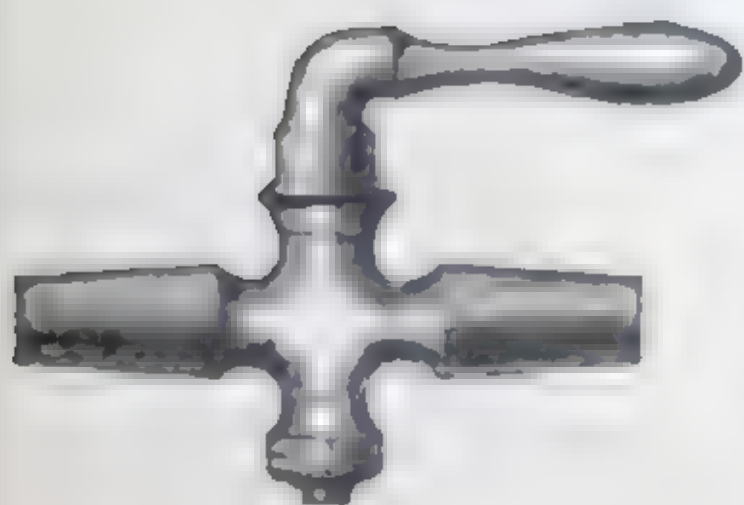


With Waste.

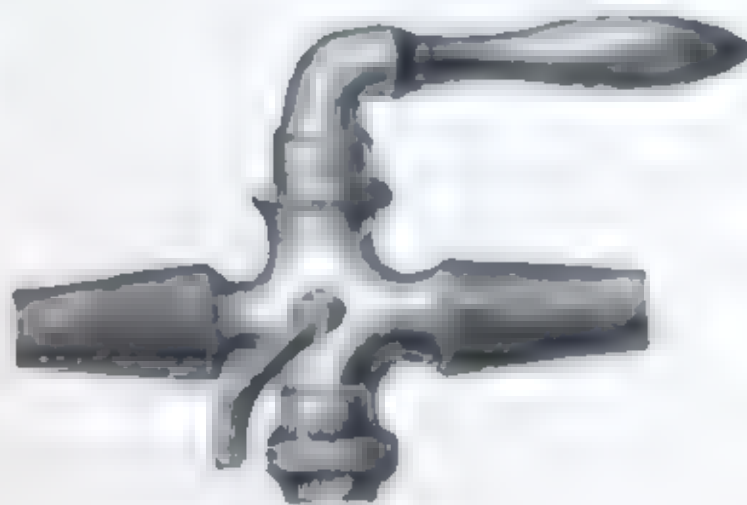


T Handle, Iron or Lead.

FINISHED STOPS.



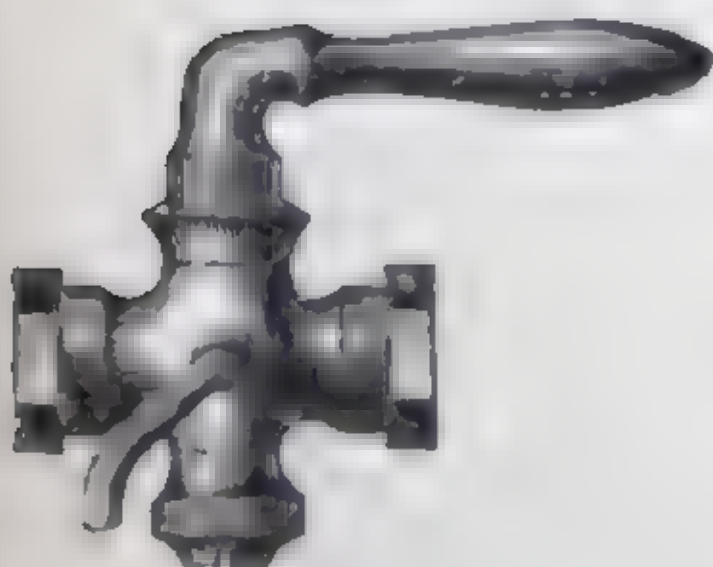
Plain.



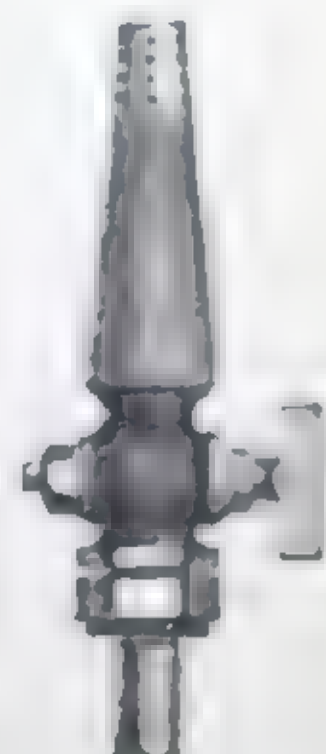
With Waste.



Iron Pipe.



With Waste.



ALE AND BEER COCKS.

GROUND KEY.

BRACKET SHAMPOOING COCKS.

Brass	per dozen,	\$30 00
Nickel Plated	"	34 00
Silver	"	42 00

BRACKET BASIN COCKS.

		Brass.	Nickel Plated.	Silver Plated.
Plain	per dozen,	18 00	22 00	26 00
Octagon	"	40 00	46 00	52 00

DOUBLE SHAMPOOING COCKS.

No.	Each,	Brass.	Nickel Plated.	Silver Plated.
1.		24 00	28 00	34 00
2.		24 00	28 00	34 00

SHAMPOOING COCKS.

Number	1	2	3	4	5	6	7
Brass per doz.	30 00	33 00	39 00	45 00	56 00	36 00	75 00
Nickel Plated	36 00	39 00	45 00	51 00	57 00	42 00	83 00
Silver	42 00	45 00	53 00	60 00	72 00	48 00	93 00

BASIN COCKS.

Number	0	1	2	3	4	5	6	7	8
Brass per doz.	17 00	18 00	21 00	24 00	33 00	42 00	24 00	60 00	48 00
Nickel Plated	20 00	21 00	24 00	27 00	38 00	48 00	28 00	66 00	57 00
Silver	27 00	28 00	33 00	36 00	45 00	56 00	36 00	75 00	72 00

COUNTER COCKS.

Plain	per dozen,	30 00
Octagon	"	36 00
Nickel Plated Plain	"	34 00
" Octagon	"	37 00
Silver Plated Plain	"	44 00
" Octagon	"	48 00

PANTRY COCKS—Plain.

		Small.	Large.
Brass	per dozen,	30 00	36 00
Nickel Plated	"	34 00	42 00
Silver	"	45 00	51 00

PANTRY COCKS—Hose Ends.

		Small.	Large.
Brass	per dozen,	33 00	39 00
Nickel Plated	"	36 00	42 00
Silver	"	48 00	54 00

COMPRESSION BRASS WORK.

COMPRESSION PLAIN BIBBS.

Size	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished,	per doz.	9 00	10 00	12 00	18 00	34 00	52 00	80 00	160 00
Rough,	"	8 50	9 50	11 00	17 00	30 00	44 00	68 00	140 00
Nickel Plated,	"	11 00	12 50	14 50	20 50	37 00			
Silver,	"	16 50	19 00	24 00	33 00	60 00			

COMPRESSION PLAIN BIBBS—For Iron Pipe. No Shoulder.

Size	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	10 00	11 00	13 00	20 00	37 00
Rough,	"	9 50	10 50	12 00	19 00	33 00

COMPRESSION PLAIN BIBBS.—For Iron Pipe.

Screw Shank and Shoulder.

Size	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished,	per doz.	10 00	11 00	13 00	20 00	37 00	56 00	86 00	170 00
Rough,	"	9 50	10 50	12 00	19 00	33 00	48 00	74 00	150 00
Nickel Plated,	"	12 00	13 50	15 50	22 50	40 00			
Silver,	"	17 50	20 00	25 00	35 00	63 00			

COMPRESSION PLAIN BIBBS.—Flange and Thimble.

Size	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	16 00	18 00	21 00	28 00	51 00
Nickel Plated,	"	20 50	21 50	24 50	32 00	55 00
Silver	"	30 00	30 00	36 00	44 00	79 00

COMPRESSION PLAIN BIBBS.—Flange Nut and Bent Coupling.

Size	inch	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished,	per doz.	25 00	32 00	44 00
Nickel Plated,	"	28 50	35 50	48 00
Silver	"	36 00	47 00	60 00

COMPRESSION HOSE BIBBS.—For Lead Pipe.

Size	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished,	per doz.	10 00	11 00	13 00	20 00	37 00	56 00	86 00	170 00
Rough,	"	9 50	10 50	12 00	19 00	33 00	48 00	74 00	150 00
Nickel Plated,	"	12 00	13 50	15 50	22 50	40 00			
Silver	"	20 00	20 00	25 00	35 00	63 00			

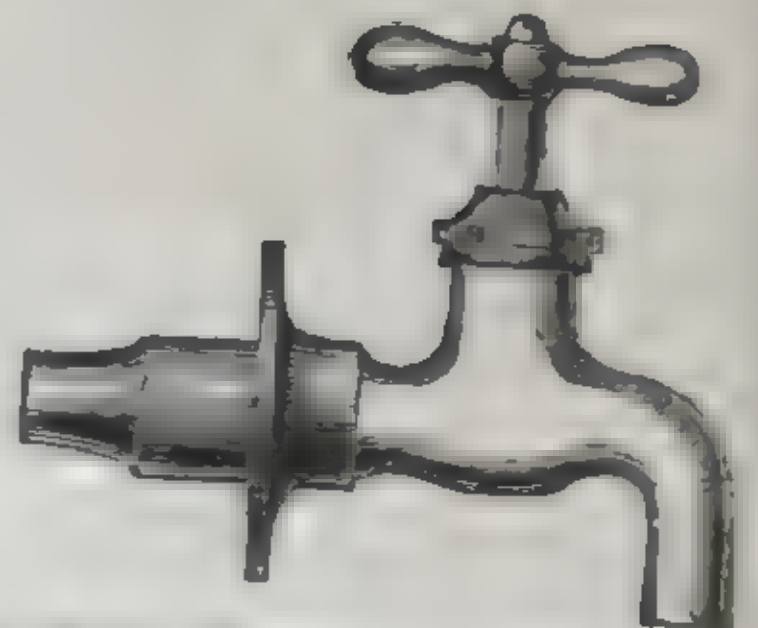
COMPRESSION BRASS WORK.



Plain Bibb.



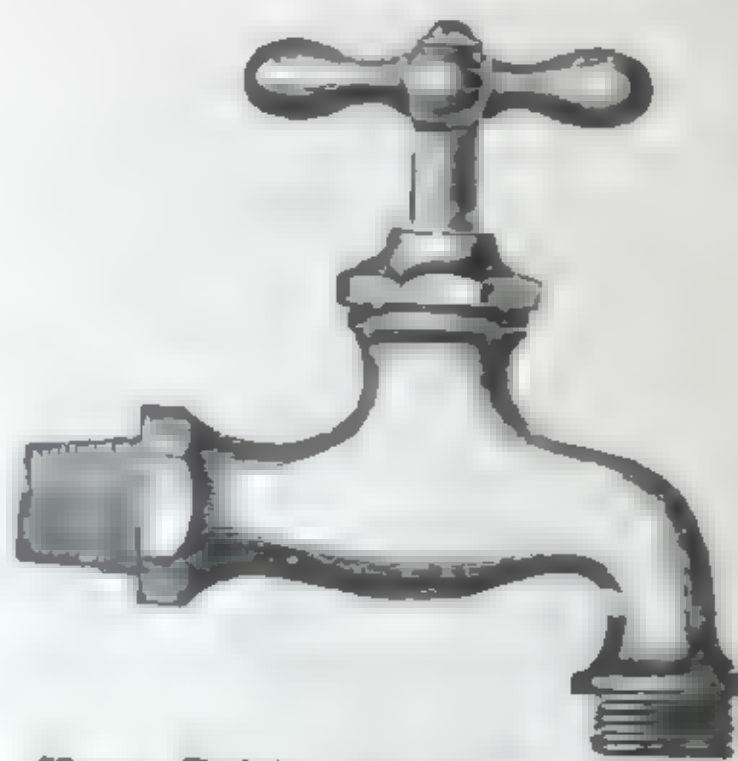
Hose Bibb.



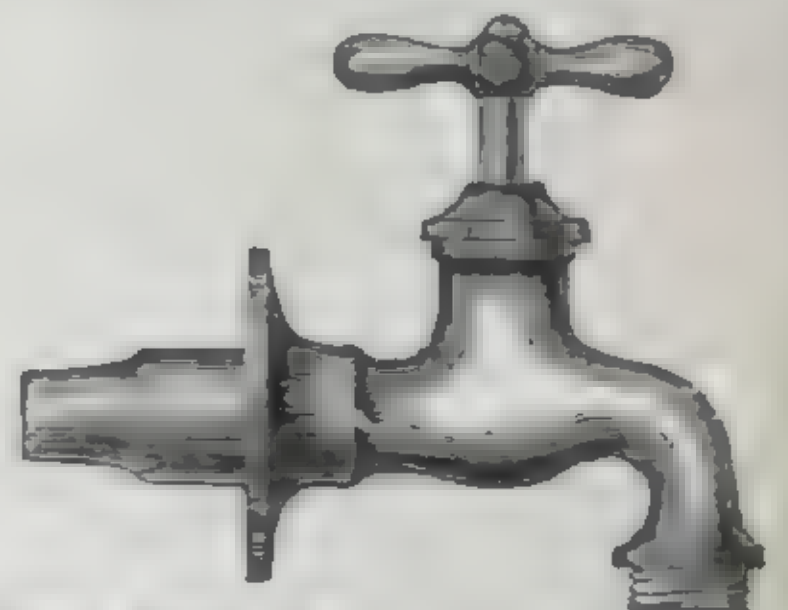
Plain Bibb, Flange and Thimble.



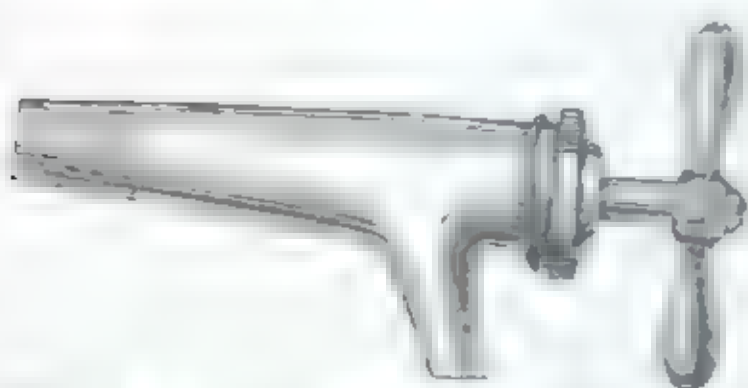
Plain Bibb, for Iron Pipe.



Hose Bibb, for Iron Pipe.



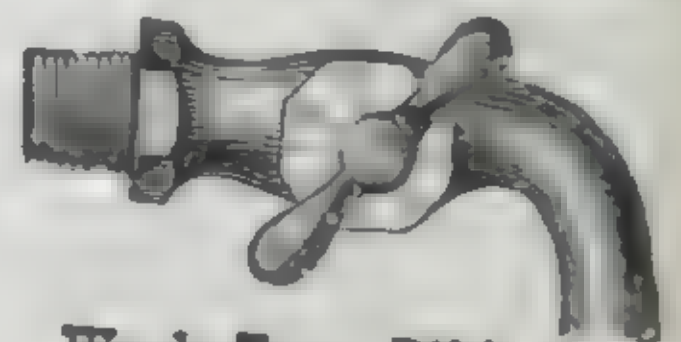
Hose Bibb, Flange & Thimble.



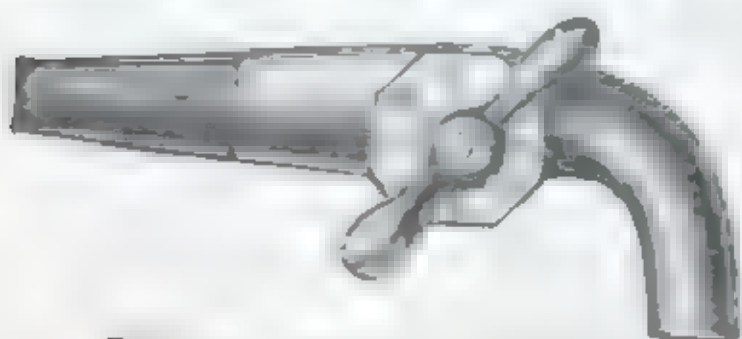
Wash Tray Bibb, Straight.



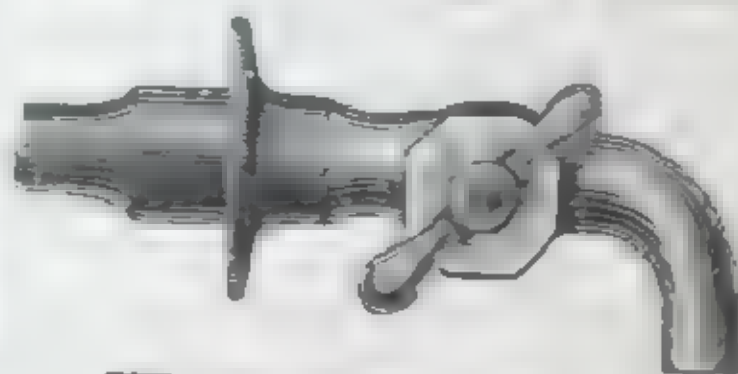
Wash Tray, Flange & Thimble.



Wash Tray Bibb, for Iron Pipe.



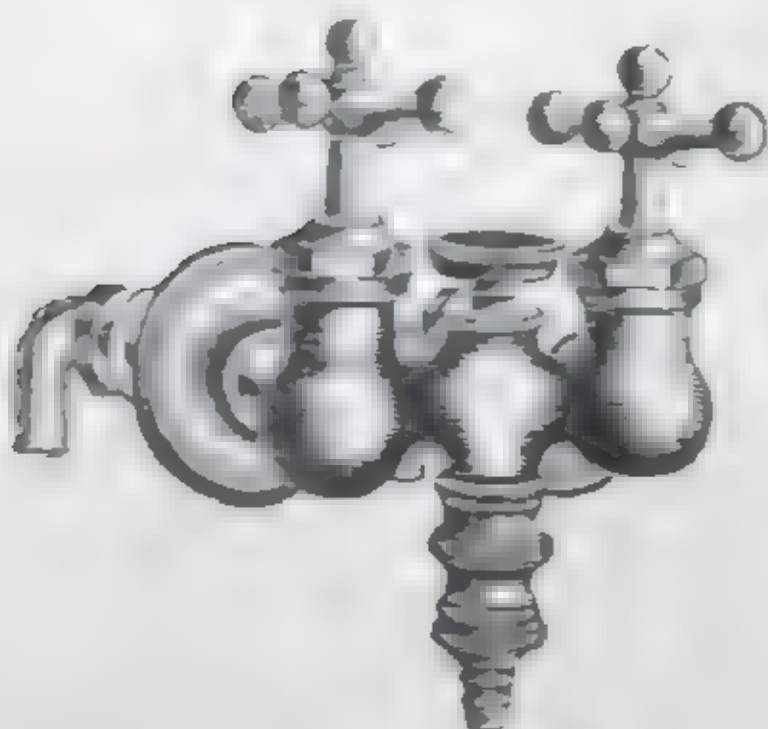
Wash Tray Bibb.



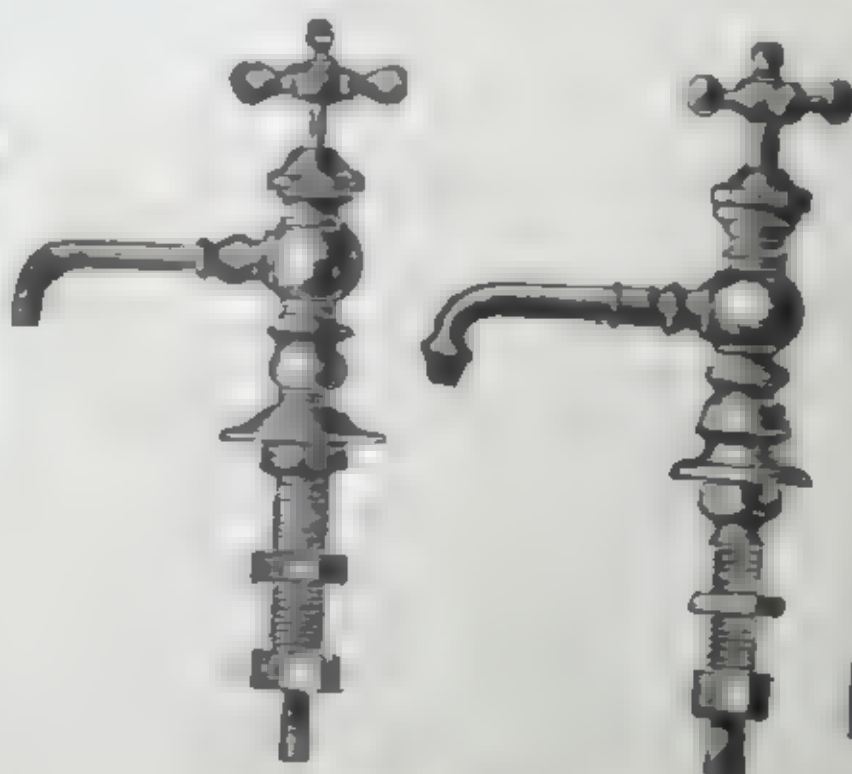
Wash Tray Bibb.



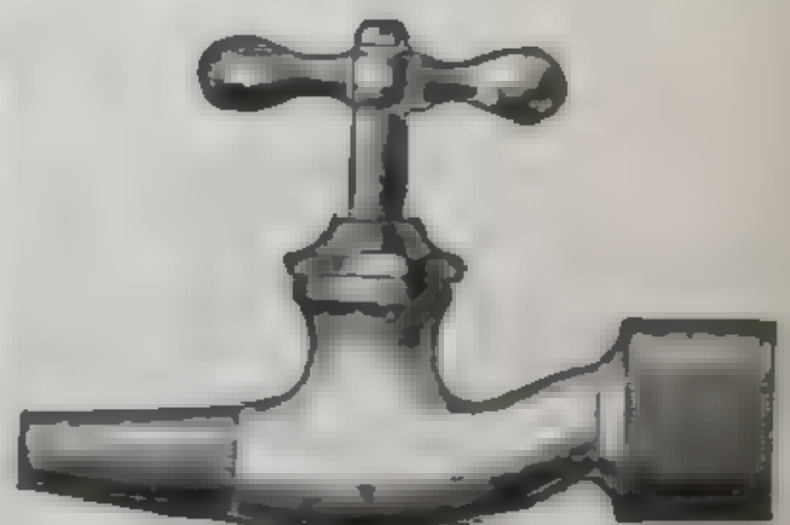
Plain Stop.



Double Bath Cock.



Basin Cocks.



Urinal Stop.

COMPRESSION HOSE BIBBS.—For Iron Pipe, No Shoulder.

Size	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	11 00	12 00	14 00	22 00	40 00
Rough,	"	10 50	11 50	13 00	21 00	36 00

COMPRESSION HOSE BIBBS.—For Iron Pipe.

Screw Shank and Shoulder.

Size.....	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished,	per doz.	11 00	12 00	14 00	22 00	40 00	60 00	92 00	180 00
Rough,	"	10 50	11 50	13 00	21 00	36 00	52 00	80 00	160 00

COMPRESSION HOSE BIBBS.—Flange and Thimble.

Size.....	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	17 00	19 00	22 00	30 00	54 00
Nickel Plated,	"	20 50	22 50	25 50	34 00	58 00
Silver "	"	30 50	31 00	37 00	46 00	82 00

COMPRESSION HOSE BIBBS.—Flange, Nut and Bent Coupling.

Size.....	inch	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished,	per doz	26 00	33 00	46 00
Nickel Plated,	"	30 00	36 50	50 00
Silver "	"	37 00	48 00	62 00

COMPRESSION WASH TRAY BIBBS.—Straight.

Size	inch	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	10 00	11 00	13 00	20 00	36 00

COMPRESSION WASH TRAY BIBBS.—Flange and Thimble.

Size.....	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	17 00	19 00	22 00	30 00	53 00

COMPRESSION WASH TRAY BIBBS.

Flange, Nut and Bent Coupling.

Size.....	inch	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished,	per doz.	26 00	33 00	46 00

COMPRESSION WASH TRAY BIBBS.—Straight.

Screwed for Iron Pipe, with Shoulder.

Size.....	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished,	per doz.	11 00	12 00	14 00	22 00	39 00

COMPRESSION BATH BIBBS.

Size.....inch		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
For Lead Pipe, Finished,	per doz.	14 00	17 00	26 00	42 00
Nickel Plated,	"	16 50	19 50	28 00	45 00
Silver	"	23 00	29 00	41 00	68 00
For Iron Pipe, Finished,	"	15 00	18 00	28 00	45 00
" " " Nickel Plated	"	17 50	20 50	30 50	48 00
" " " Silver	"	24 00	30 00	43 00	71 00
Flange and Thimble, Finished,	"	22 00	26 00	36 00	59 00
" " " Nickel Plated,	"	25 50	29 50	40 00	63 00
" " " Silver	"	32 00	40 00	52 00	87 00
Flange, Nut and Bent Coupling, Finished,	"	29 00	37 00	52 00	
" " " Nickel Plated,	"	32 50	40 50	56 00	
" " " Silver	"	40 00	52 00	68 00	

COMPRESSION PLAIN STOPS.

Size inch		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Finished,	per doz.	10 00	11 00	13 00	19 50	36 00	66 00	96 00
Rough,	"	9 50	10 50	12 00	18 50	32 00	54 00	84 00
Nickel Plated,	"	12 00	13 50	15 50	22 00	39 00		
Silver	"	17 50	20 00	25 00	34 50	62 90		

COMPRESSION STOPS.—For Iron Pipe.

Size inch		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Finished,	per doz.	11 00	12 00	21 00	38 00	69 00
Rough	"	10 50	11 50	20 00	35 00	57 00

COMPRESSION STOPS.—With Flange and Rose Handle.

Tee Handles \$2 per doz. Less.

Size.....inch		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished,	per doz.	20 00	24 00	28 50	38 00
Nickel Plated,	"	22 00	26 50	39 00	40 00
Silver	"	27 50	33 00	40 50	53 00

COMPRESSION STOP AND WASTE.—For Lead Pipe.

Size. inch		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Finished,	per doz.		15 50	18 50	25 50	44 00	
Rough,	"		14 00	17 00	24 00	42 00	

COMPRESSION STOP AND WASTE.—For Iron Pipe.

Size. inch		$\frac{1}{2}$	$\frac{3}{4}$	1
Finished,	per doz.	16 50	27 00	46 00
Rough,	"	15 00	25 50	44 00

COMPRESSION STOPS.—For Lead and Iron Pipe.

With or Without Waste.

Size.....	inch	³ / ₈	¹ / ₂	³ / ₄	1
Finished,	per doz.	13 50	16 50	26 00	45 00
Rough,	"	12 00	15 00	24 00	42 00
Nickel Plated,	"	18 50	23 00	35 00	57 00
Silver	"	26 50	32 00	51 00	78 00

COMPRESSION PANTRY COCKS.

		Tee Handle.	Four Arm of Wheel Handle.
Finished,	per doz.	30 00	33 00
Nickel Plated,	"	34 00	36 00
Silver	"	45 00	48 00

COMPRESSION PANTRY COCKS.—For Hose.

		Tee Handle.	Four Arm or Wheel Handle.
Finished,	per doz.	33 00	36 00
Nickel Plated,	"	36 00	39 00
Silver	"	48 00	51 00

COMPRESSION PANTRY COCKS.—Large, Plain Ends.

Finished,	per doz.	60 00
Nickel Plated,	"	72 00
Silver	"	85 00

COMPRESSION PANTRY COCKS.—Large, Hose End.

Finished,	per doz.	63 00
Nickel Plated,	"	75 00
Silver	"	88 00

COMPRESSION BASIN COCKS.

Numbers		0	1	3	3 & 4	5	6	7	8
Finished,	per doz.	15 00	17 00	18 00	20 00	22 00	24 00	26 00	30 00
Nickel Plated,	"	18 00	20 00	21 00	24 00	26 00	28 00	30 00	45 00
Silver	"	26 00	27 00	31 00	34 00	35 00	38 00	42 00	54 00

COMPRESSION BASIN COCKS.—For Back of Slab.

Finished.	each	5 00
Nickel Plated,	"	6 00
Silver	"	7 00

COMPRESSION DOUBLE BATH COCKS.

Complete with Sprinkler.

Numbers.....		1	2	3	4
Finished,	each	7 00	7 50	7 50	8 00
Nickel Plated,	"	7 50	7 50	8 00	10 50
Silver	"	9 00	9 00	9 50	12 00

Add for Rubber Tube 20 cents per foot.

COMPRESSION HOPPER COCKS.

Size.....inch		1 2	3 4	5 6
Rough Finished Flange and Handle,	per doz.	18 00	21 00	24 00
" Nickel Plated Handle,	"	24 50	28 50	33 00
" Silver	"	33 50	38 00	49 00

COMPRESSION HOPPER COCKS.—Screwed for Iron Pipe.

Size.....inch		1 2	3 4	5 6
Rough Finished Flange and Handle,	per doz.	19 00	22 00	26 00
" Nickel Plated Flange and Handle,	"	25 50	29 50	35 00
" Silver	"	34 50	38 50	51 00

COMPRESSION HYDRANT COCKS.

Size.....inch		1 2	3 4	5 6
Rough,	per doz.	18 00	20 00	
" Side Inlet,	"	18 00	20 00	

COMPRESSION HYDRANT COCKS.—For Iron Pipe.

Size.....inch		1 2	3 4	5 6
Rough,	per doz.	20 00	22 00	
" Side Inlet,	"	20 00	22 00	

COMPRESSION BALL COCKS.

Size.....inch		3/8	1 2	3 4	1
For Lead Pipe,	per doz.	8 50	9 50	11 00	30 00
" Iron	"	9 50	10 50	12 00	33 00

BASIN GRATES.

Size.....	1	1 1/2
Finished.....per doz.	12 00	16 00
Nickel Plated....."	14 00	20 00
Silver....."	18 00	26 00

PLUG AND COUPLING.—For Soap Stone Trays.

Size.....inch	1	1 1/4	1 1/2	2
Price.....per doz	15 00	16 00	26 00	40 00

PLUGS FOR EARTHEN SINKS.

Size.....inch	1	1 1/4	1 1/2
Brass.....per doz	15 00	17 00	21 00
Nickel Plated....."	18 00	21 00	25 00
Silver....."	24 00	26 00	31 00

BATH OR SINK PLUGS.

Size.....inch	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Finished.....per doz.	2 00	2 50	3 50	4 50	11 00	15 00	18 00	40 00
Nickel Plated....."	4 00	4 50	5 50	6 50	14 00	19 00	25 00	51 00
Silver....."	8 50	9 00	9 50	10 50	19 00	24 00	43 00	78 00

WASH TRAY PLUGS.

Size.....inch	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Finished.....per doz.	3 50	3 75	6 00	7 00	10 00	20 00	22 00	44 00

BATH WASTES AND WASHERS.

Size.....inch	1	1 1/4	1 1/2	2	2 1/2	3	4
Narrow Flange.....per doz.	8 00	9 00	12 00	15 22	24 00	30 00	60 00
Wide....."	10 00	12 00	16 00	22 00	36 00	42 00	72 00

URINAL SHIELDS.—Flat and Corner.

	Finished.	Nickel Plated.	Silver Plated.
Top.....each	1 50	3 00	4 50
Bottom....."	2 50	4 00	6 50

CISTERN VALVES.

Size.....	1 1/2	2	2 1/2	3
Regular.....per doz.	12 00	34 00	40 00	50 00
With Vent....."	26 00	54 00	70 00	70 00

DECK SCREWS.

Size... .. inch	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Price, per doz.	10 00	12 00	14 00	18 00	24 00	33 00

BOILER COUPLINGS.—Straight for Copper Boiler.

Size.	inch	1 1/2	2 1/4	1
Plain,	per doz.	7 50	8 00	11 00
Ground Face,	"	8 00	8 50	11 50

BOILER COUPLINGS.—Bent for Copper Boiler.

Size	inch	1	2	3	4	1
Plain,	per doz.	8 50		9 00		11 50
Ground Face,	"	9 00		9 50		12 50

IRON BOILER COUPLINGS.

Size..... inch	3 ¹ / ₄
Three bent and one straight,	per set 2 75

PLAIN COUPLINGS.—For Lead Pipe.

Size.....	inch	3 ¹ / ₄	1 ¹ / ₂	5 ¹ / ₈	3 ¹ / ₄	1	1 ¹ / ₄	1 ¹ / ₂	2	2 ¹ / ₂	3	
Finished.....	per doz	3 00	3 50	4 00	5 00	6 50	10 00	15 00	20 00	30 00	40 00	65 00
Ground Face.....	"	4 00	4 50	5 00	6 50	8 00	12 00	18 00	24 00	36 00	48 00	75 00

VALVE COUPLINGS.—For Lead Pipe.

Size.....	inch	3 ¹ / ₄	1 ¹ / ₂	5 ¹ / ₈	3 ¹ / ₄	1	1 ¹ / ₄	1 ¹ / ₂	2
Ground Valve and Seat	per doz.	9 00	10 00	12 00	15 00	20 00	30 00	40 00	60 00
Leather Valve, Raised Seat	"			41 00	43 00	46 00	53 00	72 00	
Screwed for Iron Pipe, And	"	1 00	2 00	4 00	5 00	6 00	8 00	12 00	12 00

WATER BACK COUPLINGS.—Straight.

Size..... inch	1 1/2	2 1/4	1
Plain.....	per doz. 6 50	7 50	11 00
Ground Face.....	" 7 50	8 00	12 00

WATER BACK COUPLINGS.—Bent.

Size.....inch	1 1/2	2 1/4	1
Plain.....per doz.	7 50	8 50	12 00
Ground Face....."	8 50	9 00	3 00

STREET WASHER CHECKS AND GUIDES.

Price,	per doz. 3 00
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HYDRANT HANDLES AND GUIDES.

Straight,	per doz. 7 00	Triangle,	per doz. 8 00
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HYDRANT NOZZLES.

Size.....	inch	$\frac{1}{2}$	$\frac{3}{4}$	1
For Lead Pipe,	per doz.	8 00	9 00	16 00
" Iron "	"	8 00	10 50	16 00

FAN SCREWS.

Price,	per doz. 2 00
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TRAP SCREWS.

Size.....	inch	$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Price, per doz.		2 00	2 50	3 00	3 50	4 50	8 00	12	18	26	30	40	60

HOSE BIBB ENDS.

Size..	inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price,	per doz.	2 50	2 50	2 50	2 50	3 50	6 00	8 00
With Set Screw,	"	7 50	7 50	7 50	8 00	10 00	12 00	16 00

STRAINERS.—Plain or Fancy.

Size.....	inch	$\frac{1}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Price, per doz.		60	85	1 20	1 45	1 80	2 40	3 00	3 60	4 80	9 00	12

STRAINERS.—Convex.

Size.....	inch	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Light, per doz.		96	1 44	1 80	2 40	3 00	3 60	4 20	4 80	6 00	12	15
Heavy,	"					4 00	4 50	8 00				

VACUUM VALVES.

For Iron Boiler,	per doz. 26 00
" Copper Boiler, Boston,	15 00
" " with Boston,	48 00

VACUUM AND SAFETY VALVES.

Price,	each 8 00
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BRASS FERRULES.

Size inch	2	3	4	5	6
Price, each	0 40	0 75	1 00	2 00	4 00
" with Trip Screw, "	0 90	1 50	2 50	5 00	6 50
" " BENT, "	1 00	1 50	2 25		

HYDRANT CLAMPS.

For 1/2 and 3/4 inch Cocks,	per doz. 2 50
" 1/2 and 1 inch, "	" 3 50

WATER FILTERS.

		Finished.	Nickel Plated.	Silver Plated.
Crown	per doz.	5 00	6 00	8 36
Glass	"	20 00	27 00	36 00
Large	"	24 00	27 00	36 00
Leaking	"	9 00		
Grooved Steel	"		30 00	

HOSE PIPES.

SHORT HOSE PIPES.—Plain.

Size inch	3/4	1	1 1/4	1 1/2	2	2 1/2
Length	8	8	12	12	12	15
Price, per doz	7 00	9 00	20 00	24 00	38 00	65 00

SHORT HOSE PIPES.—Screw Tip.

Size inch	3/4	1	1 1/4	1 1/2	2	2 1/2
Length,	8	8	12	12	12	15
Price, per doz.	8 00	10 00	20 00	25 00	38 00	75 00

SHORT HOSE PIPES.—Cock on Large End.

Size inch	3/4	1	1 1/4	1 1/2	2	2 1/2
Length	6	8	8	12	12	15
Price, per doz.	11 00	13 00	15 00	40 00	60 00	80 00
						150 00

LONG HOSE PIPES.—Screw Tips.

Size inch	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2
Length,	12	12	15	20	15	20	24
Price, per doz.	10 00	12 00	24 00	30 00	30 00	35 00	50 00
							100 00

LONG HOSE PIPES.—Cock on Large End.

Size.....inch	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{2}$	3
Length,	12	12	15	20	15	20	20
Price, per doz.	18 00	20 00	45 00	55 00	55 00	80 00	110 00

HOSE NOZZLES.—To Tie On.

Size.....inch	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Length,	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$
Price, per doz.	3 00	3 50	4 00	6 00	8 50

COMPRESSION HOSE PIPES.

Size.....inch	$\frac{3}{4}$	$\frac{1}{2}$	1	1
Length,	8	12	8	12
Price, per doz.	20 00	24 00	24 00	25 00

STEAM HOSE COUPLINGS.

Size.....inch	$\frac{3}{4}$	1	$1\frac{1}{4}$	$2\frac{1}{2}$	2	$2\frac{3}{4}$
Price, per doz.	16 00	18 00	25 00	33 00	42 00	75 00

HOSE COUPLINGS.—For Rubber Hose.

Size.....inch	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Price, per doz.	3 00	3 00	4 50	10 00	14 00	24 00	48 00	76 00	120 00	150 00
For Either Part of Coupling, Two-thirds of List Price.										

HOSE COUPLINGS.—With Bands for Linen or Leather Hose.

Size.....inch	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Price, per doz.	24 00	30 00	42 00	51 00	96 00	150 00	200 00

FIRE HOSE COUPLINGS.—With Clamps.

Size.....inch	$2\frac{1}{4}$	$2\frac{1}{2}$	3
Price, per doz.	51 00	51 00	96 00

DOUBLE FEMALE COUPLINGS.

Size.....inch	$2\frac{1}{2}$
Price, each	5 00

SUCTION HOSE COUPLINGS.

Size inch	2	2½	3	3½	4	4½	5	5½	6	6½	7	8
Each,	4 00	5 25	7 50	9 50	12 50	16 00	20 00	24 00	28 00	40 00	54 00	80 00

FITTINGS FOR LEATHER HOSE PIPE.

Size inch	1½	2	2½
Per Set, Plain,	2 00	2 50	3 00
" with Screw Tip,	2 75	3 25	4 00

IRON FLANGE SUCTION COUPLINGS.

Size inch	1½	2	2½	3	3½	4	4½	5	5½	6	6½	7	8
Each,	4 00	4 50	5 50	6 00	7 00	8 00	9 00	10 00	12 00	14 00	16 00	18 00	20 00

HOSE SPRINKLERS.

Size inch	1½	2	2½	3	3½	4
Price per doz.	3 50	4 50	6 00	9 00	12 00	18 00

With Nipple for Rubber Hose, add \$1.50.

HOSE NIPPLES.

Size inch	¾	1	1¼	1½	2	2½	3	3½	4
Each,	0 50	0 50	0 40	0 55	0 75	1 00	2 00	3 00	4 00

HOSE CAPS.—With Chain.

Size inch	¾	1	1¼	1½	2	2½
Each,	1 00	1 25	1 75	2 25	3 00	3 50
Each, with Chain & Screw,	0 60	0 75	1 15	1 50	2 00	2 50

RATH'S PATENT HOSE CLAMPS.

Size inch	¾	1	1¼	1½	2	2½
Each,	0 12	0 12	0 15	0 20	0 26	55 00

SOLDERING NIPPLES AND UNIONS.

Size inch	¾	1	1¼	1½	2	2½	3
Unions, per doz.	2 25	2 75	3 25	4 00	6 00	8 50	12 00
Nipples,	1 75	2 25	2 50	3 00	5 00	7 50	10 00

PER DOZEN.

“FULLER” COMBINATION DOUBLE BATH TUBS

"FULLER" DOUBLE BASIN BRACKET AND SHOWER

"FULLER" COMBINATION DOUBLE BATH CLACK

"FULLER" SWING BRACKET HANGING DOWN

"FULLER" SWING BRACKET STAMPED LOCK

11. *Journal of the American Medical Association*, 277: 1033-1034, 1997.

PECK'S IMPROVED SELF-CLOSING FAUCETS, ETC.

Size	inch	1/2	3/4	1
PLAIN BIBBS.				
Finished.....	per doz.	\$18	\$20	\$26
Nickel Plated.....	"	22	24	32
Silver.....	"	34	40	50
HOSE BIBBS.				
Finished.....	per doz.	\$21	\$24	\$30
Nickel Plated.....	"	25	28	36
Silver.....	"	37	44	54
PLAIN BIBBS.—Iron Pipe.				
Finished.....	per doz.	\$21	\$24	\$30
Nickel Plated.....	"	25	28	36
Silver.....	"	31	36	44
HOSE BIBBS.—Iron Pipe.				
Finished.....	per doz.	\$24	\$27	\$32
Nickel Plated.....	"	28	31	37
Silver.....	"	34	39	46
PLAIN BIBBS.—Flange and Thimble.				
Finished.....	per doz.	\$26	\$28	\$36
Nickel Plated.....	"	32	34	42
Silver.....	"	42	46	56
HOSE BIBBS. Flange and Thimble.				
Finished.....	per doz.	\$30	\$32	\$40
Nickel Plated.....	"	35	38	46
Silver.....	"	45	50	60
UPRIGHT BIBBS.				
Finished.....	per doz.	\$18	\$20	\$26
Nickel Plated.....	"	22	25	32
Silver.....	"	30	36	44
UPRIGHT BIBBS.—Flange and Thimble.				
Finished.....	per doz.	\$25	\$28	\$34
Nickel Plated.....	"	31	34	40
Silver.....	"	40	44	54
WASH TRAY BIBBS.				
Finished.....	per doz.	\$20	\$22 50	\$30
Nickel Plated.....	"	26	28	36
Silver.....	"	35	40	54
IMPROVED STOPS.—With Coupling.				
Finished.....	per doz.	\$20	\$24	\$28
Nickel Plated.....	"	18	21	25

PECK'S IMPROVED BASIN COCKS.

Number	inch	1	2	3	4	6
Finished.....	per doz.	\$33	\$36	\$46	\$56	\$80
Nickel Plated.....	"	40	44	54	64	100
Silver.....	"	46	50	60	70	120

PECK'S IMPROVED DOUBLE BASIN COCKS.

Number	7	8	9	10
Finished.....	each \$10	\$12	\$16	\$24
Nickel Plated.....	" 12	13	18	28
Silver	" 13	15	20	32

With Ebony or Ivory Handle, add \$3 00.

PECK'S IMPROVED PANTRY COCKS.

Number.....	1	2	3		8	9
Finished.....per doz.	\$36	\$42	\$50	each	\$12	each \$16
Nickel Plated.....	42	50	60	"	13	" 18
Silver	50	60	70	"	15	" 20

PECK'S IMPROVED DOUBLE BATH COCKS.

Number	1	2	3	4	5	6
Finished.....	each \$10 50	\$13	\$14	\$18	\$13 50	\$20
Nickel Plated.....	" 12	14	15	21	15	22
Silver	" 14	16	17	23	17 50	25

EJECTOR FAUCETS, ETC.

Size.....	inch	1	2	3	4	1
Plain Bibbs.....per doz.		\$12	\$15	\$18	\$24	
Nickel Plated.....		15	19	23	30	
Silver		22 50	28	36	46	
" " Iron Pipe.....		14	17	20	26	
Nickel Plated.....		17	21	25	32	
Silver		24 50	30	38	48	
" " Flange and Thimble.....		18	20	24	36	
Nickel Plated.....		21	24	29	42	
Silver		28 50	33	42	58	
Hose Bibbs.....		14	17	20	26	
Nickel Plated.....		17	21	25	32	
Silver		24 50	30	38	48	
" " Iron Pipe.....		15	18	21	28	
Nickel Plated.....		18	22	26	34	
Silver		25	31	39	50	
" " Flange and Thimble.....		20	22	28	40	
Nickel Plated.....		23	26	33	46	
Silver		30 50	35	46	62	
Wash Tray Bibbs.....		12	15	..	..
Flange and Thimble.....		18	20	..	..
Long Shank	28	..	..

BASIN COCKS.

Round Handle, Finished.....per doz	\$24	Cross Handle, Finished.....per doz.	\$26
Nickel Plated.....	30	Nickel Plated.....	32
Silver	40	Silver	42

SELF-CLOSING WORK.

Basin Cocks, Nickel Plated.....per doz.	\$6	Plain Bibbs, Silver Plated.....per doz.	\$78
Plain Bibbs, Finished.....	30	" " ".....	46
" " Nickel Plated.....	46		

SELF-CLOSING BIBBS.---Zane's Patent.

Size.....		$\frac{3}{4}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Plain Bibbs.....per doz.		16 00	18 00	21 00		72 00
" Nickel Plated	"	25 00	27 00	30 00		
" Silver	"	31 00	36 00	39 00		
" Flange and T.....	"		28 00	31 00		
" " Nickel Plated	"		37 00	40 00		
" " Silver	"		46 00	49 00		
" for Iron Pipe.....	"	18 00	20 00		23 00	78 00
" " Nickel Plated.....	"	27 00	29 00		32 00	
" Silver " Silver	"	33 00	38 00		41 00	

ZANE'S URINAL COCKS.

Brass.....	per doz.	28 00	Nickel Plated.....	per doz.	37 00
For Iron Pipe	"	30 00	Silver "	"	46 00

ZANE'S HOPPER VALVES.

Per dozen.....		48 00
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ZANE'S BASIN COCKS.

Tee Handle on Top.

Per doz., Brass	30 00	Nickel Plated	35 00	Silver Plated.....	48 00
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HAYDEN'S SELF-CLOSING BIBBS, &c.

Size.....		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Plain Bibbs, to Solder, Finished	per doz.	24 00	27 00	30 00
" " Plated	"	36 00	40 00	45 00
" Screwed for Iron Pipe, Finished	"	27 00	30 00	34 00
" " Plated	"	39 00	43 00	50 00
Urinal Stops, to Solder, Nickel Plated	"		41 00	
Hopper Valves, with Finished Plate and Handle.....	"		48 00	

HAYDEN'S SELF-CLOSING BASIN COCKS.

Number.....		1	2
With T Handle on top, Finished	per doz.	33 00	44 00
" " Silver Plated	"	48 00	60 00
" " Nickel "	"	42 00	54 00
With Lever on side (R or L hand) and Ring Cup, Finished	"	39 00	54 00
" " " Silver Plated	"	54 00	70 00
" " " Nickel Plated.....	"	48 00	64 00

SOFFE'S SELF-CLOSING BIBBS.

Size.....		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
For Lead Pipe		15 00	18 00	21 00	24 00
" " Plated.....		24 00	30 00	33 00	36 00
" Iron Pipe.....		21 00	24 00		30 00

SOFFE'S SELF-CLOSING BASIN COCKS.

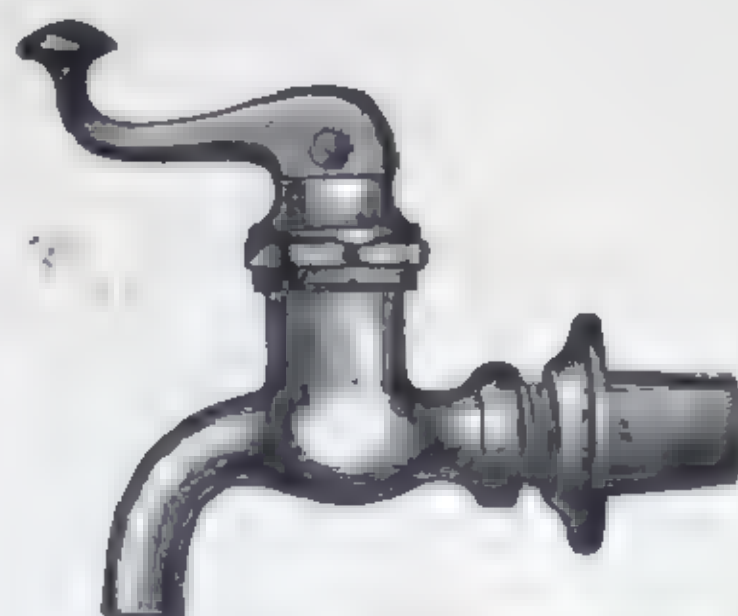
Basin Cocks.....	Small, per doz.	24 00	Large, 30 00
" Plated	"	30 00	" 42 00



Lead Pipe.



Iron Pipe.



Flange and Thimble.

SELF-CLOSING BIBBS.

Telegraph Handle.

Size.....	inch	$\frac{1}{2}$	1	$\frac{3}{4}$	1
	per doz.	15 00	17 00	20 00	26 00
Plain Bibbs,	"	17 00	19 50	22 50	28 00
Nickel Plated,	"	23 00	26 00	32 00	41 00
Silver	"	22 00	26 00	30 00	42 00
Flange and Thimble,	"	24 00	28 35	32 00	44 00
Nickel Plated,	"	30 00	35 00	42 00	57 00
Silver	"	16 00	18 00	21 00	28 00
For Iron Pipe,	"	18 00	20 50	23 00	30 00
Nickel Plated,	"	24 00	27 00	33 00	43 00
Silver	"				

BASIN COCKS.

Plain,	per doz.	24 00
Nickel Plated,	"	27 00
Silver	"	33 00

CHAIN STAYS.

Number,		1	2	3	4	5	6	7	8
Brass,	per doz.	2 25	3 25	5 00	4 00	5 00	5 00	12 00	16 00
Nickel Plated,	"	2 75	4 00	6 00	5 00	6 00	6 00	15 00	20 00
Silver	"	4 00	5 00	7 00	8 00	7 50	7 00	24 00	30 00

BASIN PLUGS.—Common Overflow.

Finished,	per doz.	8 00
Nickel Plated,	"	8 00
Silver	"	10 00

BASIN PLUGS.—Patent Overflow.

Finished,	per doz.	9 00
Nickel Plated,	"	9 50
Silver	"	11 00

BASIN CLAMPS.

Light,	per doz.	1 50	Heavy,	per doz.	2 00
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BEER PUMPS.

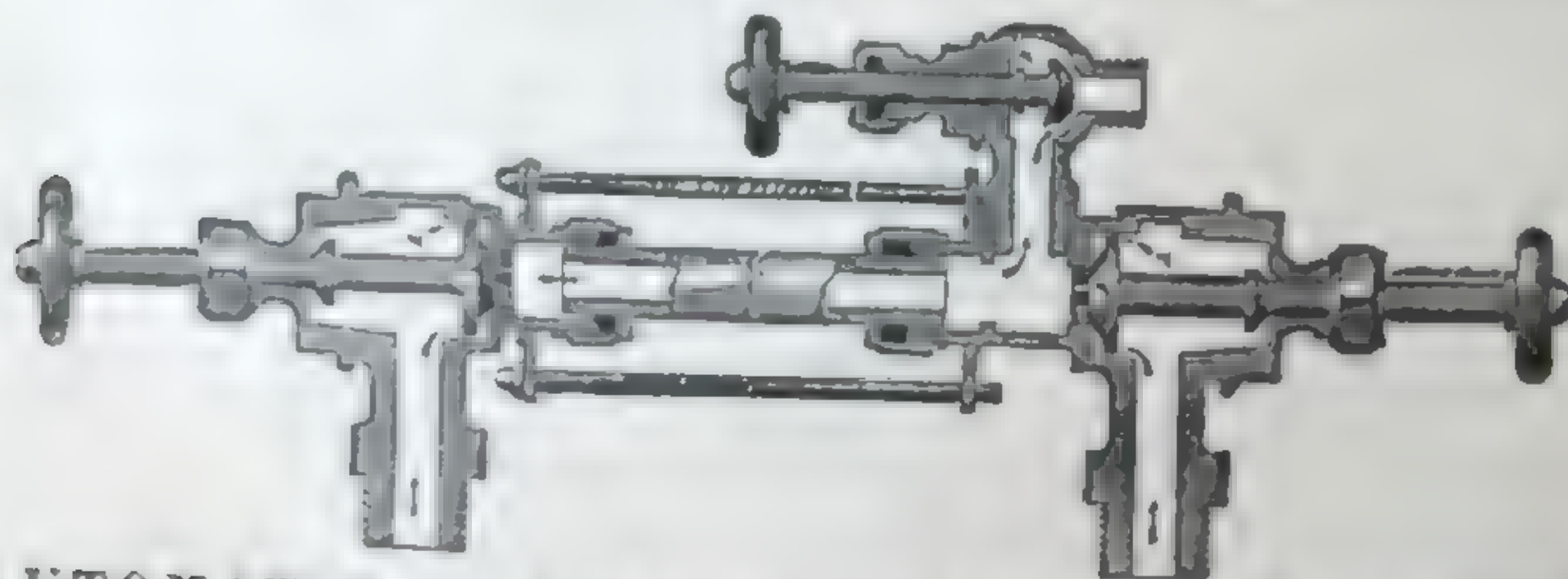
With Stand,	each 4 00
Without Stand	3 50

BEER AND ALE COCKS.

Heavy Pattern, Finished,	per dozen 44 00
Length, inch	12 3 1 2 5 3 4 1
Finished, per doz.	50 00 54 00 58 00 66 00 66 00 70 00
Getty's Patent Self-Ventilating, 9 inches,	per doz. 60 00
" " " 14 1/2 "	" 92 00
" " " 18 "	" 112 00
Chicago Pattern, Length inch	14 16 18 21
Finished, per doz.	54 00 58 00 62 00 68 00
Rough Bottling Cock,	per doz. 20 00
Finished "	" 22 00
Size, inch	1 5 3
Rough, with Coupling to Drive, per doz.	16 00 21 00 33 00
" " " " Screw,	17 00 22 00 34 00
Rough, with Coupling on Top,	per doz. 30 00
" " " Heavy	" 36 00
Empire Ale Cock,	" 60 00
Imperial Counter Cock, Rough,	" 18 00
" " " Finished,	" 20 00
S. & D. Beer Cock,	" 37 50
" " " Key on side,	" 36 00
Beer Bung or Vent Plug, with Hose Connection, Small,	" 9 00
" " " Large,	" 11 00
Air Cock, with Hose Coupling, Rough,	" 14 00

BELT LACINGS.

Cut, Width	1 4 1 1/2 1 3/4 2 2 1/4
Per 100 feet	1 00 1 25 2 00 2 75 3 25
FULL SIDES,	per lb. 85 cts.



AUTOMATIC, or SELF-CLOSING WATER GAUGE.

No. 1 Horizontal, Finished	PRICES.	No. 0, Horizontal, Plated	£14 00
No. 1, Rough Body, Glass	£12 00	PERPENDICULAR	
" " " Finished,	10 00	No. 2, Rough Body, 5/8" Glass	£6 00
" " " Plated,	12 00	" 2, Finished,	7 00
		" 3, Plated,	8 00

PLUMBERS' COPPER WORK.

BATH TUBS.

Weight of Copper.....	10	12	14	16	18	20 oz.
4' 2, 5, 5½ or 6 feet long.....each	13 75	15 75	17 75	19 75	21 75	23 75
Zinc, 4' 2, 5, 5½ or 6 feet long....."	8 00					
Foot Tub....."	7 00					
French, 4' 2, feet long....."	15 00	17 00	19 00	21 00	23 00	25 00
Hip Tub....."	9 00					

COPPER BOILERS.

Number of Gallons Capacity....	30	35	40	45	50	60	70	80	90	100
Croton Pressure, round head ...	24 00	27 00	32 00	37 00	41 00	52 00	59 00	68 00	80 00	88 00
Heavy " " " " " " " " " " " "	26 00	30 00	34 00	39 00	43 00	55 00	63 00	72 00	84 00	92 00
Double.....						85 00		100 00		112 00

COPPER SINKS.

Size.....inch	12 x 18	12 x 20	14 x 16	14 x 20	14 x 24	16 x 24	16 x 30	18 x 30
Square.....	4 50	5 00	4 50	6 00	7 00	8 00	10 00	11 00
Oval.....	5 50	5 50	5 00	6 50	8 00	9 00	11 00	12 00

COPPER SHOWERS.

No. 1, Plain Showers.....	per doz.	12 00
" 2, Fancy ".....	"	15 00
" 3, " " Flange and Thimble.....	"	17 50
" 4, Tubular ".....	"	27 00
" 5, Fancy Tubular Showers.....	"	30 00
" 6, " " Flange and Thimble.....	"	30 00
Copper Fans.....	per doz.	1 50

COPPER CLOSET PANS.

Light.....per doz.	7 00	Double Weight.....per doz.	12 00
Heavy....."	8 00	With Porcelain Plate.....	18 00
Copper Air Chambers, each.....	No. 1... 4 50	No. 2....	5 50

COPPER BALLS.

Size.....	4	5	6	7	8	10	12
Price.....per doz.	4 50	6 00	7 00	10 50		80c per lb	

BRASS CHAIN.

Number	20	18	17	16	15	14	13	12	10	
Single. Brass, per paper of 12 yards	0 75	1 00	1 10	1 25	1 50	1 75	2 00	2 50	3 75	
Silver Plated	1 75	2 00	2 50	2 75	3 00	3 50	4 00	5 00	7 50	
Number							17	15	13	
DOUBLE. Brass, per paper of 12 yards							2 00	3 00	4 00	
Silver Plated							3 75	4 75	6 00	
Number						00	0	1	2	3
SAFETY. Brass, per paper of 12 yards						2 25	2 50	3 25	4 75	6 50
Silver Plated						4 00	4 50	5 25	6 75	9 00

CHAIN SNAP RINGS.

Old Style, Plated.....per doz.	0 50	New Style, Plated.....per doz.	0 80
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AMERICAN SANITARY EARTHENWARE

	12 inch.	13 inch.	14 inch.	15 inch.	16 inch.
No Overflow Basins.....	0 80	1 00	1 15	1 60	2 00
Common Overflow Basins.....	1 05	1 25	1 40	1 90	2 40
Patent " ".....	1 15	1 30	1 50	2 10	2 70
" " " Rubber Plug.....	1 40	1 55	1 70	2 30	3 00
Round Closet Bowl.....					1 45
Oval " ".....					1 45
Round Pipe Wash Closet Bowl.....					2 10
" " " and Vent Closet Bowl.....					2 60
Oval " " Closet Bowl.....					2 45
" " " and Vent Closet Bowl.....					2 90
Philadelphia Hoppers.....					3 25
" " with large Flange.....					3 75
Bedfordshire Urinals, No. 1, Flat and Corner...					6 90
" " " 2, " ".....					5 25
" " " 3, " ".....					4 85
" " " 1, Flat, with Lip...					8 50
" " " 2, " ".....					6 90
" " " 1, Corner, with Lip.....					8 50
" " " 2, " ".....					6 90
Bidet Pans, for Brass Plugs.....					3 25
" " with Overflow.....					4 00
Ship Closet Basin No. 1.....					1 80
" " " 2.....					1 60
Ship Plug Basins.....					1 60

IMPORTED EARTHENWARE.

Outside Diameter.	inch.	12	13	14	15	16	
Wash Basins, Common Overflow.	each	0 75	0 85	1 00	1 35	1 70	
" Patent Overflow.	"	0 80	0 90	1 10	1 50	2 00	
" Rubber Plugs.	"	1 20	1 30	1 40	2 85	2 50	
Closet Bowls, French.	each	1 10	Oval		each	1 20	
Urinals.	No	1	2	3	4	6	7
Large.		4 60	4 60	6 00	4 50	4 50	6 00
Small.		4 20	4 20	3 75	3 50	3 50	4 75

EARTHEN DRAIN PIPE AND FITTINGS.

PIPE PER FOOT.	BENDS AND TEES EACH.	BRANCHES. Single, Double and V.	TRAPS EACH.	HOUSE BRANCHES, per lineal ft.	SEWER BRANCHES, per lineal ft.
2 inch..... 0 13	0 40	0 48	1 10	15 x 6..... 2 75	15 in..... 2 25
3 "..... 0 16	0 50	0 61	1 25	18 x 6..... 2 50	18 "..... 3 00
4 "..... 0 20	0 65	0 75	1 75		
5 "..... 0 25	0 85	0 90	2 50		
6 "..... 0 30	1 15	1 05	3 50		
7 "..... 0 35	1 50	1 20	5 00		
8 "..... 0 45	2 00	1 45	6 00		
9 "..... 0 55	2 50	1 70	7 00		
10 "..... 0 70	3 00	2 00	8 00		
12 "..... 0 80	5 75	2 52	10 00		
15 "..... 1 25	5 00				
18 "..... 1 60	7 50				

REDUCERS and INCREASERS—price of Bends measured at largest opening.
 SYPHONS—price of Bend and one foot of Pipe added.
 OFFSETS—one-half the price of Traps.
 STANTS—price of one and one-half feet of Pipe.
 COLLARED PIPE—in lengths of 4 feet, from 2 to 12 inches, inclusive.
 PIPE WITH RINGS, in lengths of 3 feet, from 10 inches upward.

SOAP STONE LAUNDRY TUBS.

2 Parts,	4 feet long,	2 feet wide,	16 inches deep	26 00
2 "	4 " 6 in. "	2 "	16 "	29 00
2 "	5 " "	2 "	16 "	32 00
2 "	5 " 6 in. "	2 "	16 "	35 00
3 "	6 " "	2 "	16 "	40 00
3 "	6 " 6 in. "	2 "	16 "	43 50
3 "	7 " "	2 "	16 "	47 00
3 "	7 " 6 in. "	2 "	16 "	55 00
3 "	8 " "	2 "	16 "	65 00

CERAMIC LAUNDRY TUBS, at manufacturers' prices.

SOAP STONE SINKS.

2 feet long,	18 inches wide,	7 inches deep	10 00
2 " 6 in. "	19 " "	7 " "	11 00
3 " "	20 " "	7 " "	12 00
3 " 8 in. "	22 " "	7 " "	13 00
4 " "	24 " "	7 " "	16 00
4 " 6 in. "	24 " "	7 " "	20 00
5 " "	24 " "	7 " "	25 00

Extra High Backs, \$1 00 a Foot.

IRON LEGS FOR SOAP STONE WASH TRAYS.

Plain, each	1 40	Galvanized, each	2 75
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IRON BRACKETS FOR SOAP STONE SINKS.

Plain, each	1 40	Galvanized, each	2 75
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POWELL'S PATENT RUBBER PLUGS.

Size.....	inch	1	1 1/4	1 1/2	2
Bath Plugs, Brass	per doz	3 50	4 25	5 00	7 00
" " Plated	"	4 50	5 50	7 00	9 00
Wash Tray Plugs, Brass	"	4 20	5 00	7 00	12 00
" " Plated	"	5 50	6 50	8 75	15 00
Basin Plugs, Common O. Brass	"	5 50	9 50		
" " Plated	"	7 00	12 00		
" " Pat. O., Brass	"	7 00	11 00		
" " Plated	"	8 50	13 50		
Soap Stone Wash Tray Plugs	"		11 50	16 50	24 00
" " " "	"		14 50	20 00	30 00
Rubber Stoppers, 1 in. by the single dozen					2 50
" " in quantities of 6 dozen. per dozen					2 00
Larger Sizes.....	inch	1 1/4	1 1/2	2	
Rubber Stoppers, with Brass Tip and Ring	per doz	3 00	3 25	4 00	
" " Plated " "	"	3 50	3 75	4 50	

LEAD TRAPS.—Adee's.

Size.....inch	4	2	1½	1¼
Full S. Adee.....each	.....	0 50	0 40	0 35
Half "....."	1 00	0 45	0 35	0 33

ADEE'S BOTTLE TRAPS.

Size.....inch	1½	1¼	2
Full S.....each	0 65	0 65	1 00
Half S....."	0 55	0 55	0 85

CLARK'S BOTTLE TRAPS.

Size.....inch	1½	1¼	2
Full S.....each	0 75	0 75	1 15
Three-Quarter S....."	0 75	0 75	1 15
Half S....."	0 70	0 70	1 00
Running....."	1 00	1 00	...

LOWE'S.

4	inch Full S	No. 1 Traps	.....	each	2 20
4	"	" 2	.....	"	1 90
2	"	Trap and Screw	.....	"	1 10
1½	"	"	.....	"	0 80
1¼	"	"	.....	"	0 65
4	" Half S.	No. 1 Traps	.....	"	1 75
4	"	" 2	.....	"	1 55
2	"	Trap and Screw	.....	"	1 00
1½	"	"	.....	"	0 70
1¼	"	"	.....	"	0 55
2	"	Three-quarter S. Traps and Screw	.....	"	1 10
1½	"	"	.....	"	0 80
4	"	"	.....	"	2 20
4	"	Long Bends	.....	"	1 30
4	"	Short	.....	"	0 90
2	"	Bends	.....	"	0 45
1¼	"	"	.....	"	0 40

BOWER'S SEWER GAS TRAPS.

SIZE		FULL S.				HALF S.				RUNNING.			
Inlet.	Outlet	Lead and Glass		All Lead		Lead and Glass		All Lead		Lead and Glass		All Lead	
		No.	Price.	No.	Price.	No.	Price.	No.	Price.	No.	Price.	No.	Price.
1 inch	1½ in. h.	1	1 00	2	1 20	3	0 95	4	1 15	9	1 10	10	1 30
1½ "	1½ "	5	1 05	6	1 25	7	1 00	8	1 20	19	1 40	20	1 65
1½ "	1½ "	11	1 10	12	1 30	13	1 05	14	1 25				
1½ "	1½ "	15	1 38	16	1 67	17	1 30	18	1 55				
1½ "	2 "	21	1 50	32	1 75	23	1 40	24	1 65				

"THE DU BOIS" TRAPS AND BENDS.

		Extra Heavy, 8 lb. Lead.				Special, 5½ lbs.	Standard Weight, 6 lb. Lead.					
Size	inch	4	4	3	2	4	4½	4	3	2	1½	1¼
Full S		4 25	3 25	2 30	1 60	1 90	3 25	2 20	1 70	1 10	0 80	0 65
Half S		4 25	3 25	2 30	1 60	1 90	3 25	2 20	1 70	1 10	0 80	0 65
Running		3 25	2 50	1 85	1 20	1 55	2 50	1 70	1 35	1 00	0 70	0 55
Running Y		4 25	3 25	2 30	2 60	...	2 60	1 85	1 50	1 05	0 75	0 60
Long Bend		6 75	5 00	4 60	2 20	...	5 00	4 60	3 40	2 00	1 60	1 25
Short Bend		2 60	2 00	1 35	1 10	...	2 00	1 35	1 00	55	0 45	0 40
		2 60	1 50	1 00	0 80	...	1 50	0 90	0 75	45	0 40	0 30

The above prices include Brass Drain Screws for all Traps excepting the 4 and 4½ in.

LAWN SPRINKLERS.

Four Arm	7 00	Eight Arm	8 00
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BASIN AND BATH SUPPLY.

Supply, Waste and Overflow for Basin, Nickel Plated.....	each	12 00
" " Silver ".....	"	14 00
" " for Bath, Nickel ".....	"	20 00
" " Silver ".....	"	22 50
Basin Waste and Overflow, Nickel Plated	"	6 50
" Silver ".....	"	8 00
" Nickel ".....	"	7 50
" Silver ".....	"	9 00

WALNUT WASHSTANDS, Etc.

PRICES FOR WOOD WORK ONLY.

Nickel Plated Towel Racks, \$2 00 each extra.

	Plain Panels.	Veneered Panels.
Corner for 22 in. or 24 in. Marble Slab	15 00	17 50
No. 1, for 27 x 20 in. or 30 x 20 in. Marble Slab	14 00	16 00
" 2, with two small Drawers, for 30 x 20 in. Marble Slab	16 50	19 00
" 3, with two Drawers on side of door for 27 x 20 in. Marble Slab	17 50	20 00
" 3, " " 30 x 20 " ".....	19 00	22 00
" 3, " " 33 x 20 " ".....	20 00	24 00
" 4, " six Drawers, Door in center, 33 x 20 " ".....	25 00	31 50
" 4, " " 36 x 20 " ".....	31 00	37 00
Water Closet Seat, Complete	15 00	22 00
" Seat and Front only.....	12 50	17 50
Top and Front for 4 ft. 6 in. Bath Tub	19 00	25 00
" 6 ft. ".....	21 50	27 50
Bidet Case	16 00	21 00
" fitted up complete.....	40 00	45 00

MARBLE SLABS.—Best Italian Marble.

Special Prices.

Countersunk.....	per foot	Plain	per foot
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IRON URINALS.

	Plain	Painted	Galvanized	Enamelvd.
No. 1, Corner, 7 inches on side	0 75	0 90	1 20	1 75
" 2, " 9 " ".....	1 00	1 15	1 70	2 25
" 3, " 12 " ".....	1 25	1 45	2 25	2 75
" 1, 1/4 Circle, 12 inches back.	1 35	1 60	2 45	2 85
" 2, " 15 " ".....	1 80	2 10	3 10	3 50

HYDRANT CESSPOOLS.

12x12x6 in. each	1 00,	with Bell Trap,	1 50	16x16x6 in. each	1 30,	with Bell Trap,	1 80
14x14x6 in.	1 15,	" "	1 65	18x16x6 in.	1 63,	" "	2 10

SEWER VALVES.

Size.....	inch	2	3	4	5	6	7	8	9
Brandie's, Price.....	each			9 00	11 00	13 00			
Common, " ".....	"	2 25	2 50	3 50	9 00	12 00	17 00	21 00	27 00

OAKUM.

Per lb., 8c.....	By the 50 lb. bale, 7c.
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SQUARE SINKS.

SHALLOW SINKS.

SIZE	Patent	Galv'd	Front	SI/E	Ham.	Galv'd	Ham'd
16", 5 inch deep	1 10	2 30	4 50	24 x 15	1 40	3 00	5 75
18", 6	1 25	2 60	4 75	30 x 17	2 10	4 25	7 50
16", 6	1 60	3 25	5 25	36 x 19	2 60	5 50	9 25
22", 6	1 60	3 30	5 75	42 x 20	3 40	7 00	11 00
23", 6	1 70	3 40	6 25	48 x 22	4 10	8 75	13 00
25", 6	1 75	3 60	6 50				
26", 6	1 50	3 10	5 25				
20", 6	1 50	3 20	6 00	HALF CIRCLE SINKS.			
24", 6	1 70	3 75	6 25	No. 1, Back, 24 in. Width, 14 in. Depth, 6 in.	1 50	3 25	6 00
24", 6	1 80	4 00	6 50	" 2, " 27 " " 14 " " 6 "	1 50	3 90	7 00
24", 6	2 10	4 30	7 00	" 3, " 28 " " 16 " " 8 "	2 50	5 00	8 00
25", 6	2 10	4 30	7 00	" 4, " 31 1/2 " " 17 " " 6 "	2 25	4 75	9 00
27", 6	2 00	4 25	7 25	CORNER SINKS.			
24", 6	2 40	5 00	7 50	No. 1, Side, 17 in. Front, 25 in. Depth, 4 1/2 in.	1 25	2 75	6 00
28", 6	2 20	4 50	7 50	" 2, " 20 " " 24 " " 6 "	1 75	3 50	7 00
28", 6	2 70	5 50	8 00	" 3, " 22 " " 31 " " 6 1/2 "	2 10	4 20	8 00
30", 6	2 25	4 75	7 75	CORNER SLOP SINKS.			
30", 6	2 50	5 10	8 50	Side, 18 1/2 in. Front, 25 in. Depth, 12 in.	4 00	7 50	11 00
32", 6	3 00	6 25	9 00	SQUARE SLOP SINKS.			
32", 6	3 00	6 25	9 50	16 x 16 x 10 in. deep			
36", 6	3 40	7 20	9 75	20 x 14 x 12	2 70	5 25	7 50
36", 6	3 00	6 50	9 50	20 x 14 x 12	3 50	6 50	8 50
38", 6	3 80	8 00	11 00	20 x 10 x 12	4 00	8 25	10 00
42", 6	4 25	9 00	12 00	24 x 20 x 12	5 00	8 50	11 50
44", 6	5 30	11 50	13 25	23 x 15 x 15	4 25	8 00	11 00
45", 6	5 75	12 25	15 00	30 x 20 x 12	8 00	15 00	16 00
24", 8	2 50	5 25	8 00	36 x 21 x 12	10 00	19 00	20 00
30", 8	5 00	10 50	13 00	36 x 21 x 12	14 00	27 00	28 00
50", 6	7 50	16 00	18 00	48 x 20 x 12	17 00	30 00	32 00
50", 6	8 00	17 00	20 00	48 x 20 x 17	20 00	36 00	38 00
62", 8	10 75	22 00	26 00	If Patent Overflow, add to above prices of all styles of Sinks	1 00	1 00	1 00
76", 9	15 00	32 00	32 00	If with Plug Strainers, add.	0 20	0 25	0 30
56", 10	16 00	35 00	35 00	SQUARE SLOP SINK, WITH ROUNDED CORNERS. With 4 in. Outlet in Center.			
78", 10	18 00	40 00	35 00				
94", 10	25 00	50 00	45 00				
120", 6	30 00	60 00		Size, 22 x 20 x 12	5 00	10 00	12 00
	32 00						

SINK BACKS.

Sizes.	Plain.	Galv'd.	Enam'd	Sizes.	Plain.	Galv'd.	Enam'd
20 inches.	1 25	2 25	3 25	30 inches.	2 00	4 00	5 00
22 "	1 35	2 50	3 40	32 "	2 25	4 25	5 25
23 "	1 40	2 70	3 50	36 "	2 75	5 00	6 00
24 "	1 50	2 80	3 70	38 "	3 00	5 50	6 50
25 "	1 60	3 00	4 25	42 "	3 50	6 00	7 00
27 "	1 70	3 25	4 50	48 "	4 25	7 00	8 00
28 "	1 80	3 50	4 75	Larger sizes in Sections made to order.			

With Air Chambers, Pipes, and Couplings, Complete.

To prices of Plain Back, add for each Chamber with Pipe and Coupling, 2 00 | 2 50 | 3 00

If Pipe and Coupling are not required, deduct 50 cents. Cutting Square Sinks to fit pipes, each cents.

SINK LEGS,

each | 0 50 | 1 00 |

IMPROVED KITCHEN SINKS.

With Plain Backs and Brackets.

Sizes.	Plain.	Galv'd.	Enam'd
30 x 22.	8 00	15 00	20 00
36 x 22.	9 75	18 00	24 00
42 x 22.	11 50	21 00	28 00
48 x 22.	13 25	24 00	32 00
30 x 22 without Back and with Legs	6 00	11 00	15 00
36 x 22 "	7 00	13 18	18 00
42 x 22 "	8 00	15 00	21 00
48 x 22 "	9 00	17 00	24 00
Brackets.	0 75	1 25	

With Backs and Air Chambers Complete, and Brackets.

30 x 22	12 00	20 00	26 00
36 x 22	13 75	23 00	30 00
42 x 22	15 50	26 00	34 00
48 x 22	17 25	29 00	38 00

Sink Strainers, Plain.	per doz.	1 50
" Galvanized	"	2 60
" Enameled	"	3 00
Plug Sink Strainers, Plain.	"	3 25
" Galvanized	"	5 00

IMPROVED KITCHEN SINKS.

With Plain Backs and Legs.

Sizes.	Plain.	Galv'd.	Enam'd
30 x 22.	9 50	18 00	21 50
36 x 22.	11 25	21 00	25 50
42 x 22.	13 00	24 00	29 50
48 x 22.	14 75	27 00	33 50
30 x 22 without Back and with Legs	7 50	14 00	16 50
36 x 22 "	8 50	16 00	19 50
42 x 22 "	9 50	18 00	22 50
48 x 22 "	10 50	20 00	25 50
Legs	1 50	2 75	

With Backs and Air Chambers Complete, and Legs.

30 x 22	13 50	23 00	27 50
36 x 22	15 25	26 00	31 50
42 x 22	18 00	29 00	35 50
48 x 22	18 75	32 00	39 50

IMPROVED CORNER SINKS.

With Plain Backs and Patent Overflows.

No.	1.	Side, 17 in.	Front, 25 in.	Depth, 4 1/2 in.	
"	2.	"	"	"	5 00
"	3.	"	"	"	6 00
		"	"	"	7 00

If without Patent Overflow, deduct \$1 00.

With Backs and Air Chambers Complete.

No	1.	Side, 17 in.	Front, 25 in.	Depth, 4 1/2 in.	
"	2.	"	"	"	9 00
"	3.	"	"	"	10 00
		"	"	"	11 00

Plug Sink Strainers, Enameled	per doz.	6 00
Sink Couplings, Plain.	"	1 50
" Galvanized	"	2 00
" For Iron Pipe.	"	9 00
" "	"	10 00

IRON RANGE BOILERS.

Capacity	Size	Price, Plain	Price, Galvanized.
18 Gallons	3 feet by 12 inches.	10 75	14 05
21 "	3 1/2 " 12 "	11 55	14 85
24 "	4 " 12 "	12 50	15 75
27 "	4 1/2 " 12 "	13 25	17 50
30 "	5 " 12 "	14 05	19 00
36 "	6 " 12 "	19 00	24 35
35 "	5 " 15 "	15 75	20 75
24 "	3 " 14 "	14 95	19 00
28 "	4 " 14 "	14 85	19 80
32 "	4 " 14 "	15 75	20 75
36 "	4 " 14 "	16 50	21 50
40 "	5 " 14 "	18 25	24 00
48 "	6 " 14 "	24 00	29 75
42 "	4 " 16 "	19 00	25 75
52 "	5 " 16 "	23 25	30 60
63 "	6 " 16 "	29 00	38 00
55 "	4 " 18 "	25 00	31 50
66 "	5 " 18 "	28 00	36 00
79 "	6 " 18 "	33 00	44 00
82 "	5 " 20 "	34 00	45 50
92 "	6 " 20 "	42 00	54 00
101 "	5 " 22 "	42 00	54 00
120 "	6 " 22 "	49 00	63 00
130 "	5 " 24 "	47 50	61 50
144 "	6 " 24 "	54 00	70 00
150 "	5 " 24 "	65 00	84 00
160 "	6 " 24 "	75 00	95 00

BOILER STANDS.

Dimensions	12	13	14	15	16	18	20	22	24
On Legs	1 10	1 20	1 30	1 40	1 50	2 00	2 10	2 25	2 40
Locking	1 25	1 30	1 40	1 50	2 00	2 10	2 25	2 40	2 50

CAST IRON CISTERNS.

Each with Ball Cock, 1 Ball, Cistern Valve and Service Box.

No. 1 24" x 36" x 48"	Painted, 10 00	Galvanized, 13 00
No. 2 24" x 36" x 48"	" 11 00	" 14 00
No. 3 24" x 36" x 48"	" 12 00	" 16 00

Copper-Lined Tanks, Complete, 24x12x12....

Special sizes made to order.

Flange Valves	each	1 00
Ball Valve	"	0 40
Cistern	"	0 20

HOPPERS.

Plunger, Plain, Size 1/2 in.	Plain, 1 25	Painted, 1 50	Enamelled, 2 00
with Plug	" 1 75	" 2 00	" 2 75
Mott's Patent	" 1 75	" 2 00	" 3 00
English	" 1 75	" 2 00	" 3 00
Short Hopper	" 1 25	" 1 50	" 2 00
with Plug	" 1 75	" 2 00	" 2 75
with Trap	" 3 00	" 3 50	" 5 25
Hopper Tray	" 1 75	" 1 85	" 3 00

FLUSHING RIM HOPPERS.

Long Oval Flushing Rim Hopper	Painted, 4 00	Enamelled, 5 50
English	" 3 50	" 5 00
Short	" 5 00	" 6 00
with Enamelled Hopper and Painted Trap	" 5 50	" 6 75

WATER CLOSETS.

Demarest, No. 1	18 00	No. 1-A	20 00	No. 1-B	24 00
" " 2	18 00	" 2-A	20 00	" 2-B	24 00
" " 3	18 00	" 3-A	20 00	" 3 C	24 00
Premier, Nos. 1, 2 and 3					38 00
Hygeia Closet only					24 00
" " with Painted Cistern					35 00
" " " Galvanized Cistern					38 00
" " " Enameled					40 50
Tidal Wave Closet, with Plain Wooden Copper-Lined Cistern, Seat, Lever and Connection					50 00
Tidal Wave Closet, with Veneered Cistern					60 00

CISTERN WATER CLOSETS.

Light Pattern	each	4 00
Bartholomew Pattern	"	5 50
" " Enameled Receiver	"	7 50

CARR'S WATER CLOSETS, URINALS AND VALVES.

American Defiance Valve Closet	20 00
Monitor Valve Closet, with Removable Section	8 40
O. I. C. Valve Closet	5 00
Monitor Cistern Closet, with Removable Section	7 50
O. I. C. Cistern Closet	4 50

	With Double Acting Valve.	With Single Acting Valve.
No 3 Hopper Stand, Painted	6 00	5 00
" 4, Hopper Enameled	8 50	7 50
" 5, Hopper and Trap, Self-Raising Seat, Enameled	11 00	10 00
" 6, Hopper, Self-Raising Seat, Enameled	9 00	9 00
" 7, Hospital Hopper, Enameled	13 00	12 00
" 7, " " with Ventilating Pipe	16 00	15 00
" 8, Hopper, Self-Raising Seat and Basin Joint		8 00
" 9, Double Acting Hopper Valve		3 00
" 10, Single " "		2 00
" 11, Brooklyn Water Waste Preventer		2 50
" 2 A, Valve on Stand, with Pull		3 00
Cut-off, with Valve		10 00
Boiler Safety and Vacuum Valve		4 00
Boiler Vacuum Valve		1 75
Swinging Urinal, White Bowl, Large		20 00
" " " Small		15 00
" Water Closet, White Bowl		25 00

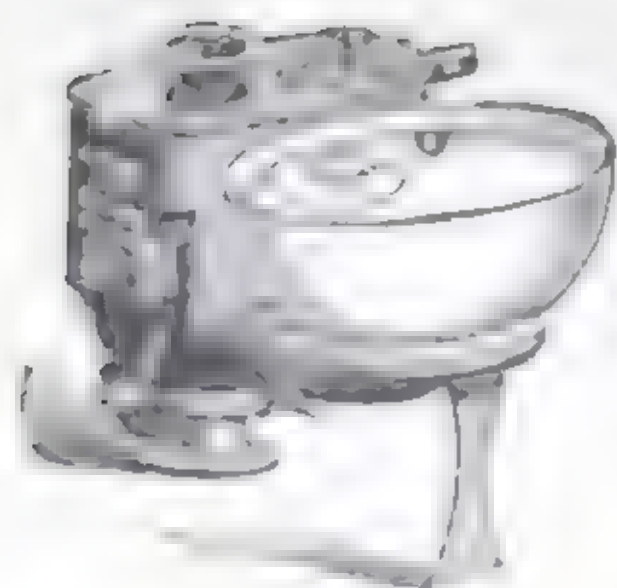
Decorated Bowl, \$5 00 extra

BARTHOLOMEW'S HOPPER CLOSETS AND VALVES.

Enameled Hopper and Trap combined, with Self-Raising Seat and Double Valve	each	12 00
" " " " " Single "	"	11 00
Enameled Hopper, Self-Raising Seat, with Double Valve	"	8 50
" " " " Single "	"	8 00
" " " without Valve	"	7 00
Double Hopper Valves	"	2 25
Single Hopper Valves	"	1 00

All SANITARY and SPECIAL GOODS furnished at manufacturer's prices and discounts.

WATER CLOSETS.



"THE SANITARY."

Price, with Offset Trap or Straight Outlet,	\$25 00
Extra for Enameled Reservoir,	3 00
Boxing	0 60



"THE SENATOR."

Side Outlet, Improved Flushing Rim, Water Channel Valve.

Price, with Offset Trap or Straight Outlet, Painted Valve Section and Porcelain Bowl,	\$20 00
" " with Enameled Valve Section and Bowl,	24 00
Add if with Vented Bowl,	0 50
Boxing, 50c. net.	



"BARTHOLEMUEWS."

Price, with Valve,	\$8 50
without " for Cistern,	6 00
Nickel Plated Cap and Pull, 25c. extra.	
Shower " " " 50c. "	



"THE CENTURY,"

Or, O. K.

Price with Valve	\$5 00
without Valve for Cistern,	4 00
Nickel Plated Cap and Pull, 25c. extra.	
Shower " " " 50c. "	



"THE EXCELSIOR."

Oval Flushing Rim Bowl, and Iron and Enameled Trap.

Price, No. 3	\$18 75
Boxing.....	0 60

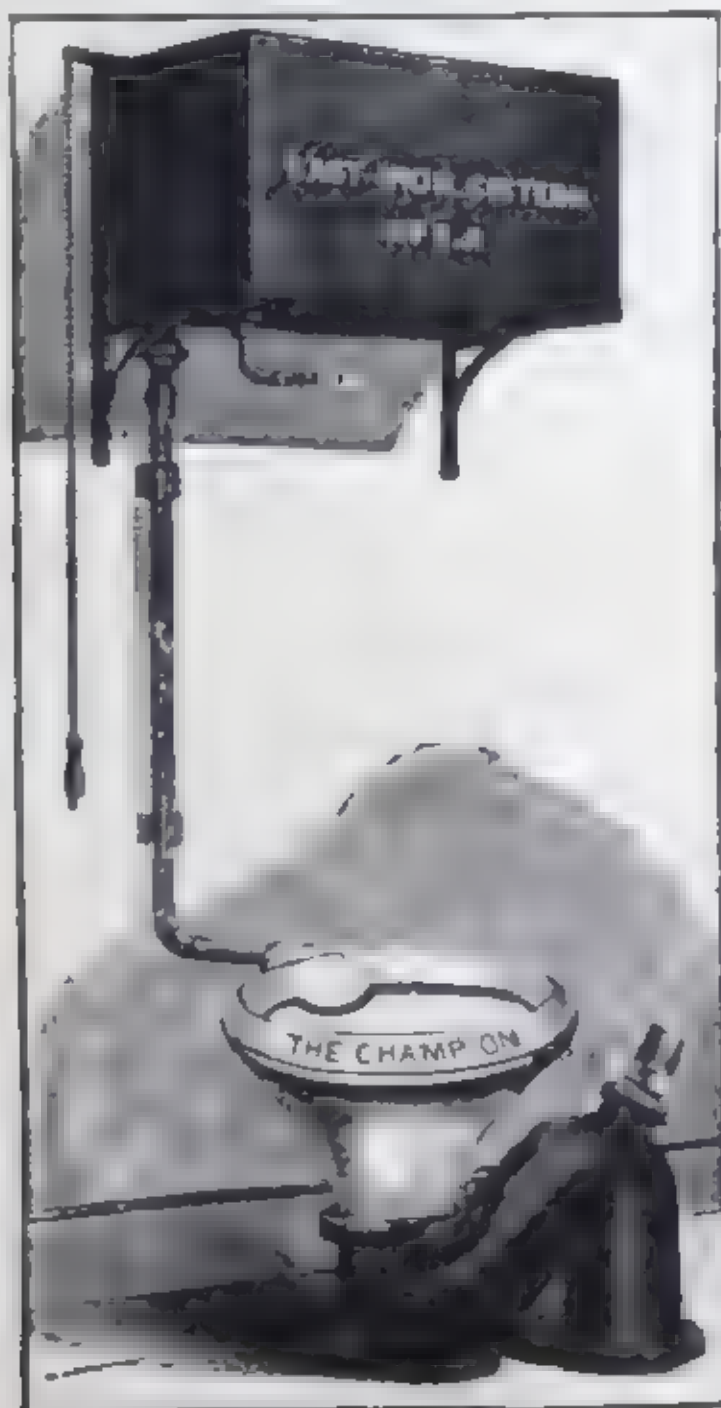


"THE NOISELESS."

Automatic Seat.

All Earthen. Oval Flushing Rim Bowl and Trap.

Price, No. 13	\$30 50
Boxing.....	0 60



"THE CHAMPION."

Round. Flushing Rim Bowl and Iron Enameled Trap.

Price, No. 7	\$16 00
Boxing.....	0 60



"THE UNIVERSAL."

All Earthen, in one piece.

Price, No. 15	\$23 00
Boxing.....	0 60

Sz	feet	3	4	5
Murdock Hydrants, Iron Case		10 00	11 00	12 00
" " Self-Closing.....		12 00	13 00	14 00
Street Washers, Iron Case		8 50	9 50	10 50
High Post and Street Washer, combined		18 00	20 00	22 00
Barley's Hydrants, Iron Case		6 00	6 60	
" " Street Washer, Iron Case.....		5 10	5 70	
" " " and Stop Cock, combined.....		7 00	8 00	
" " Hydrants, 1 inch.....		10 50	11 00	
" " Street Washer, 1 inch.....		8 00	8 50	

To set in the Ground		3	4	5	6
Hydrom.feet	10 00	11 00	12 00	13 00
Hydrom.	Self Closing with Patent Adjustable Handle	11 00	12 00	13 00	14 00
	Street Washer, Large Case	8 50	9 50	10 50	11 50
1	12 50	13 50	14 50	15 50
1	Street Washer	10 00	11 00	12 00	13 00

For each of these items each 5.00

12 00	per doz.	15 00
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Street Washing Brushes	per doz.	4 00
Hydraulic Road Brushes	"	5 00
Street Washing Brushes	"	1 50

No. 1	Half-and-Half,
		Market Rates.

Old Brass, Copper and Lead taken in Trade.

WASHERS. Put up in Boxes of 1,000 each.

For Basin Cocks	per thousand	1.50
For Basin Plugs		1.50
For Boiler Couplings		1.75
For Flange and Thimble Cocks		2.00

PLUMBER'S WASHERS.

Size				
Fiber Washers for Compression Work	per 1,000	1.25	1.50	1.75
Rubber " "		1.25	1.50	1.75

LEAD TACKS, SCREWS, ETC.

Lead Tacks, Single	per 100	0.75
" " Double		1.00
Iron Washers, for Basin Cocks		0.18
Iron Screws, for Lead Tacks	per 100	0.40
Brass Screws, for W. T. Plugs		0.10
Nickel Screws and Washers 1 1/2 inch		0.75
" " 2 "		1.00
" " 1 1/4 inch		0.50
" " 2 "		0.75

HOOKS.

Plumber's Hooks		1.00
Leader Hooks, plain		1.00
" " turned		1.00
Tinned Straps		1.00

PUTTY.

In cans of 50 lbs.	per can	1.00
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STOP COCK BOXES AND STREET WASHERS.

Connolly & Kelt's Stop Cock Boxes, for Lead or Iron Pipe		2.00
" " Repair "		1.50
" " Single Street Washers, for Lead or Iron Pipe		1.75
" " Double "		2.00
" Houghtons " Stop Cock or Repair Box		1.00
Cast Iron		2.00

THE "BOSS" STOP COCK BOX.

at manufacturers' prices

PLUMBER'S TOOLS.

Dressers, Hickory	each 0 45	Dogwood	each 0 75	Boxwood	each 1 00
Basting Blocks, Boxwood	each 1 00	Dogwood	each 0 75		
Sale Edges, Hickory	each 0 20	Boxwood	each 0 50		
Thin Pins, Boxwood				1	2
Each				0 15	0 20
Chipping Knives				3	0 25
				4 inch blade,	0 35
				5 "	0 40
				6 "	0 45
Copper Bores, Pointed and Handed				per lb.	0 35
Round Irons, No. 1	each 0 45	No. 2	each 0 60	No. 3	each 0 75
Wrought Levers, 5 inch	each 0 25	6 "			0 55
	0 30	8 "			0 75
	0 35	10 "			1 75
	0 40				3 50
Slave Hooks, Oval					0 25
Slave Hook Blades					0 10
Rays and Files, 10 inch	0 40	13 inch			0 70
	0 50	14 "			0 80
	0 60	15 "			1 00
Tap Borers					0 35
Turning Pins					0 25
Chipping Chisels					0 40
Plumbers' Wrenches					1 25
Copper Saw, Cup					0 30
Green, Round and Flat Boxes					1 25
Steel Coat Chisels, Small	0 40	18 inches	0 60	22 inches	1 25
Steel Face Chisels, Light	1 10	Heavy			1 25
Wagon Closet Tongs					2 00
Wiping Cloths, Muzzles	0 15	Ticking			0 10
Locking Goggles					0 25
Pat Hooks					0 10
Screw Driver					0 35
Farmer Chisels, Small					0 30
" Large					0 40
Sand Brushes					0 10
Rules, Boxwood					0 30
" Brass Band					0 75
Compasses, 5 in	0 20	6 in	0 25	7 in	0 30
				8 in	0 35
Hammers, Small					0 75
" Large					0 90
Saws, Compass					0 50
" Panel, Single Edge					1 00
" Double					1 25
Steel Faced Planes					1 75
Cutting Pliers					1 00
Gas Pliers	inch	5	6	7	8
Price		40c	45c	50c	60c
					70c
					75c
					80c
					90c
Washer Cutters					1 50
Solder Pots		1	2	3	4
Price		23c	43c	46c	82c
					97c
Plumber's Blast Furnaces					7 50
Terches, Brass					1 40
" Tin					1 00

LEAD PIPE.

Caliber and Mark.		Weight per foot.		Caliber and Mark.		Weight per foot.	
$\frac{1}{8}$ in.		0 lbs.	2 oz.	$1\frac{1}{4}$ in.	C	3 lbs.	0 oz.
$\frac{1}{4}$ " E		0 "	5 "	$1\frac{1}{4}$ " D		2 "	8 "
$\frac{3}{8}$ " AAA		1 "	12 "	$1\frac{1}{4}$ " E		2 "	0 "
$\frac{3}{8}$ " AA		1 "	5 "	$1\frac{1}{2}$ " AAA		2 "	0 "
$\frac{3}{8}$ " A		1 "	2 "	$1\frac{1}{2}$ " AA		7 "	0 "
$\frac{2}{4}$ " B		1 "	0 "	$1\frac{1}{2}$ " A		6 "	4 "
$\frac{3}{8}$ " C		0 "	14 "	$1\frac{1}{2}$ " B		5 "	0 "
$\frac{3}{8}$ " D		0 "	10 "	$1\frac{1}{2}$ " C		4 "	4 "
$\frac{7}{16}$ " D		0 "	7 "	$1\frac{1}{2}$ " D		3 "	8 "
$\frac{1}{2}$ " AAA		0 "	9 $\frac{1}{2}$ "	$1\frac{1}{2}$ " D		3 "	0 "
$\frac{1}{2}$ " AAA		3 "	0 "	$1\frac{1}{2}$ " waste		2 "	0 "
$\frac{1}{2}$ " AA		2 "	8 "	$1\frac{1}{2}$ " AA		8 "	8 "
$\frac{1}{2}$ " A		2 "	0 "	$1\frac{1}{2}$ " A		6 "	7 "
$\frac{1}{2}$ " B		1 "	10 "	$1\frac{1}{2}$ " B		5 "	0 "
$\frac{1}{2}$ " C		1 "	3 "	$1\frac{1}{2}$ " C		4 "	0 "
$\frac{1}{2}$ " D		1 "	0 "	$1\frac{1}{2}$ " D		3 "	10 "
$\frac{1}{2}$ " D		0 "	9 "	2 " AAA		10 "	11 "
$\frac{1}{2}$ " D		0 "	10 "	2 " AA		8 "	14 "
$\frac{1}{2}$ " D		0 "	12 "	2 " A		7 "	0 "
$\frac{5}{8}$ " AA		2 "	12 "	2 " B		6 "	0 "
$\frac{5}{8}$ " A		2 "	8 "	2 " C		5 "	0 "
$\frac{5}{8}$ " B		2 "	0 "	2 " D		4 "	0 "
$\frac{5}{8}$ " C		1 "	7 "	2 " waste		3 "	0 "
$\frac{5}{8}$ " D		1 "	4 "	2 $\frac{1}{2}$ " $\frac{3}{8}$ thick		16 "	12 "
$\frac{5}{8}$ " D		1 "	0 "	2 $\frac{1}{2}$ " $\frac{5}{16}$ "		13 "	10 "
$\frac{5}{8}$ " E		0 "	12 "	2 $\frac{1}{2}$ " $\frac{1}{4}$ "		10 "	10 "
$\frac{3}{4}$ " AAA		4 "	0 "	2 $\frac{1}{2}$ " $\frac{3}{16}$ "		7 "	13 "
$\frac{3}{4}$ " AA		3 "	8 "	2 $\frac{1}{2}$ " waste		6 "	0 "
$\frac{3}{4}$ " A		3 "	0 "	2 $\frac{1}{2}$ " waste		1 "	0 "
$\frac{3}{4}$ " B		2 "	2 "	3 " $\frac{1}{2}$ thick		19 "	9 "
$\frac{3}{4}$ " C		1 "	12 "	3 " $\frac{5}{16}$ "		16 "	0 "
$\frac{3}{4}$ " D		1 "	3 "	3 " $\frac{1}{4}$ "		12 "	9 "
$\frac{3}{4}$ " E		1 "	0 "	3 " $\frac{3}{16}$ "		9 "	4 "
1 " AAA		6 "	0 "	3 " waste		5 "	0 "
1 " AA		4 "	8 "	3 " waste		3 "	8 "
1 " A		4 "	0 "	3 $\frac{1}{2}$ " $\frac{3}{4}$ thick		22 "	8 "
1 " B		3 "	4 "	3 $\frac{1}{2}$ " $\frac{5}{16}$ "		18 "	7 "
1 " C		2 "	8 "	3 $\frac{1}{2}$ " $\frac{1}{4}$ "		14 "	8 "
1 " D		2 "	4 "	3 $\frac{1}{2}$ " $\frac{3}{16}$ "		10 "	12 "
1 " E		2 "	0 "	4 " $\frac{1}{8}$ "		25 "	6 "
1 " E		1 "	8 "	4 " $\frac{1}{16}$ "		20 "	14 "
1 $\frac{1}{4}$ " AAA		6 "	12 "	4 " $\frac{1}{32}$ "		16 "	7 "
1 $\frac{1}{4}$ " AA		5 "	12 "	4 " $\frac{1}{64}$ "		12 "	2 "
1 $\frac{1}{4}$ " A		4 "	11 "	4 " waste		8 "	0 "
1 $\frac{1}{4}$ " B		3 "	11 "	4 " waste		6 "	0 "
				4 " waste		5 "	0 "

PURE BLOCK TIN PIPE.—Weight per Foot.

$\frac{3}{16}$ inch	2 $\frac{1}{2}$ oz. per foot.	$\frac{1}{4}$ inch	AAA	13 oz. per foot.
$\frac{1}{4}$ " AA	3 $\frac{1}{2}$ "	$\frac{3}{8}$ " AA		10 "
$\frac{1}{4}$ " "	8 "	1 " AAA		17 "
$\frac{5}{16}$ " AAA	6 $\frac{1}{2}$ "	1 " AA		14 "
$\frac{3}{8}$ " AAA	7 "	1 $\frac{1}{4}$ " AAA		26 "
$\frac{3}{8}$ " AA	4 "	1 $\frac{1}{4}$ " AA		18 "
$\frac{1}{2}$ " AAA	10 "	1 $\frac{1}{2}$ " AAA		36 "
$\frac{1}{2}$ " "	8 "	1 $\frac{1}{2}$ " AA		24 "
$\frac{3}{4}$ " AA	6 $\frac{1}{2}$ "	2 " AAA		40 "
$\frac{3}{4}$ " AAA	11 "	2 " AA		26 "
$\frac{5}{8}$ " AA	9 "			

SHEET LEAD. Weight per Square Foot.

2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 4, 4 $\frac{1}{2}$, 5, 6, 7, 8, 9, 10 pounds and upwards.

TIN-LINED PIPE.

SIZES AND WEIGHT OF SHEET TIN.

Mark.	No. of Sheets in a Box.	Dimensions.		Weight of a Box.		
		Length.	Breadth.	Cwts.	Qrs.	Lbs.
1 C	225	13 $\frac{1}{2}$	10	1	0	0
1 H	225	13 $\frac{1}{2}$	10	1	1	7
1 V	225	13 $\frac{1}{2}$	10	1	1	0
1 A	225	13 $\frac{1}{2}$	10	1	1	21
1 A A	225	13 $\frac{1}{2}$	10	1	2	14
1 A A A	225	13 $\frac{1}{2}$	10	1	3	7
1 D C	100	16 $\frac{1}{2}$	12 $\frac{1}{2}$	6	3	21
1 D H	100	16 $\frac{1}{2}$	12 $\frac{1}{2}$	1	0	14
1 D A	100	16 $\frac{1}{2}$	12 $\frac{1}{2}$	1	1	7
1 D A A	100	16 $\frac{1}{2}$	12 $\frac{1}{2}$	1	2	0
1 D A A A	100	16 $\frac{1}{2}$	12 $\frac{1}{2}$	1	2	21
S 1 D C	200	15	11	1	2	0
S 1 D H	200	15	11	1	2	21
S 1 D A	200	15	11	1	3	14
S 1 D A A	200	15	11	2	0	7
S 1 D A A A	200	15	11	2	1	0

MARKET RATES.

SHEET BRASS AND COPPER.

WEIGHT OF CAST IRON PIPES,

IN JAW FOR LEAD PIPE. THE WEIGHT OF THE TWO FLANGES MAY BE
REGARDED AS WEIGHT OF ONE FOOT.

Thickness of Metal.

	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{3}{4}$
2	12.8	17.1	21.4	25.7	30.0	34.3	38.6
3	19.2	25.7	31.4	37.1	42.8	48.5	54.2
4	25.6	34.3	41.4	48.5	55.6	62.7	69.8
5	32.0	42.8	51.4	60.1	68.8	77.5	86.2
6	38.4	51.4	61.4	71.4	80.0	88.6	97.2
7	44.8	59.8	71.4	81.4	90.0	98.6	107.2
8	51.2	68.2	81.4	91.4	100.0	108.6	117.2
9	57.6	76.6	91.4	101.4	110.0	118.6	127.2
10	64.0	85.0	101.4	111.4	120.0	128.6	137.2
11	70.4	93.4	111.4	121.4	130.0	138.6	147.2
12	76.8	101.8	121.4	131.4	140.0	148.6	157.2
13	83.2	110.2	131.4	141.4	150.0	158.6	167.2
14	89.6	118.6	141.4	151.4	160.0	168.6	177.2
15	96.0	127.0	151.4	161.4	170.0	178.6	187.2
16	102.4	135.4	161.4	171.4	180.0	188.6	197.2
17	108.8	143.8	171.4	181.4	190.0	198.6	207.2
18	115.2	152.2	181.4	191.4	200.0	208.6	217.2
19	121.6	160.6	191.4	201.4	210.0	218.6	227.2
20	128.0	169.0	201.4	211.4	220.0	228.6	237.2
21	134.4	177.4	211.4	221.4	230.0	238.6	247.2
22	140.8	185.8	221.4	231.4	240.0	248.6	257.2
23	147.2	194.2	231.4	241.4	250.0	258.6	267.2
24	153.6	202.6	241.4	251.4	260.0	268.6	277.2
25	160.0	211.0	251.4	261.4	270.0	278.6	287.2
26	166.4	219.4	261.4	271.4	280.0	288.6	297.2
27	172.8	227.8	271.4	281.4	290.0	298.6	307.2
28	179.2	236.2	281.4	291.4	300.0	308.6	317.2
29	185.6	244.6	291.4	301.4	310.0	318.6	327.2
30	192.0	253.0	301.4	311.4	320.0	328.6	337.2
31	198.4	261.4	311.4	321.4	330.0	338.6	347.2
32	204.8	269.8	321.4	331.4	340.0	348.6	357.2
33	211.2	278.2	331.4	341.4	350.0	358.6	367.2
34	217.6	286.6	341.4	351.4	360.0	368.6	377.2
35	224.0	295.0	351.4	361.4	370.0	378.6	387.2
36	230.4	303.4	361.4	371.4	380.0	388.6	397.2
37	236.8	311.8	371.4	381.4	390.0	398.6	407.2
38	243.2	320.2	381.4	391.4	400.0	408.6	417.2
39	249.6	328.6	391.4	401.4	410.0	418.6	427.2
40	256.0	337.0	401.4	411.4	420.0	428.6	437.2
41	262.4	345.4	411.4	421.4	430.0	438.6	447.2
42	268.8	353.8	421.4	431.4	440.0	448.6	457.2
43	275.2	362.2	431.4	441.4	450.0	458.6	467.2
44	281.6	370.6	441.4	451.4	460.0	468.6	477.2
45	288.0	379.0	451.4	461.4	470.0	478.6	487.2
46	294.4	387.4	461.4	471.4	480.0	488.6	497.2
47	300.8	395.8	471.4	481.4	490.0	498.6	507.2
48	307.2	404.2	481.4	491.4	500.0	508.6	517.2
49	313.6	412.6	491.4	501.4	510.0	518.6	527.2
50	320.0	421.0	501.4	511.4	520.0	528.6	537.2
51	326.4	429.4	511.4	521.4	530.0	538.6	547.2
52	332.8	437.8	521.4	531.4	540.0	548.6	557.2
53	339.2	446.2	531.4	541.4	550.0	558.6	567.2
54	345.6	454.6	541.4	551.4	560.0	568.6	577.2
55	352.0	463.0	551.4	561.4	570.0	578.6	587.2
56	358.4	471.4	561.4	571.4	580.0	588.6	597.2
57	364.8	479.8	571.4	581.4	590.0	598.6	607.2
58	371.2	488.2	581.4	591.4	600.0	608.6	617.2
59	377.6	496.6	591.4	601.4	610.0	618.6	627.2
60	384.0	505.0	601.4	611.4	620.0	628.6	637.2
61	390.4	513.4	611.4	621.4	630.0	638.6	647.2
62	396.8	521.8	621.4	631.4	640.0	648.6	657.2
63	403.2	530.2	631.4	641.4	650.0	658.6	667.2
64	409.6	538.6	641.4	651.4	660.0	668.6	677.2
65	416.0	547.0	651.4	661.4	670.0	678.6	687.2
66	422.4	555.4	661.4	671.4	680.0	688.6	697.2
67	428.8	563.8	671.4	681.4	690.0	698.6	707.2
68	435.2	572.2	681.4	691.4	700.0	708.6	717.2
69	441.6	580.6	691.4	701.4	710.0	718.6	727.2
70	448.0	589.0	701.4	711.4	720.0	728.6	737.2
71	454.4	597.4	711.4	721.4	730.0	738.6	747.2
72	460.8	605.8	721.4	731.4	740.0	748.6	757.2
73	467.2	614.2	731.4	741.4	750.0	758.6	767.2
74	473.6	622.6	741.4	751.4	760.0	768.6	777.2
75	480.0	631.0	751.4	761.4	770.0	778.6	787.2
76	486.4	639.4	761.4	771.4	780.0	788.6	797.2
77	492.8	647.8	771.4	781.4	790.0	798.6	807.2
78	499.2	656.2	781.4	791.4	800.0	808.6	817.2
79	505.6	664.6	791.4	801.4	810.0	818.6	827.2
80	512.0	673.0	801.4	811.4	820.0	828.6	837.2
81	518.4	681.4	811.4	821.4	830.0	838.6	847.2
82	524.8	689.8	821.4	831.4	840.0	848.6	857.2
83	531.2	698.2	831.4	841.4	850.0	858.6	867.2
84	537.6	706.6	841.4	851.4	860.0	868.6	877.2
85	544.0	715.0	851.4	861.4	870.0	878.6	887.2
86	550.4	723.4	861.4	871.4	880.0	888.6	897.2
87	556.8	731.8	871.4	881.4	890.0	898.6	907.2
88	563.2	740.2	881.4	891.4	900.0	908.6	917.2
89	569.6	748.6	891.4	901.4	910.0	918.6	927.2
90	576.0	757.0	901.4	911.4	920.0	928.6	937.2
91	582.4	765.4	911.4	921.4	930.0	938.6	947.2
92	588.8	773.8	921.4	931.4	940.0	948.6	957.2
93	595.2	782.2	931.4	941.4	950.0	958.6	967.2
94	601.6	790.6	941.4	951.4	960.0	968.6	977.2
95	608.0	799.0	951.4	961.4	970.0	978.6	987.2
96	614.4	807.4	961.4	971.4	980.0	988.6	997.2
97	620.8	815.8	971.4	981.4	990.0	998.6	1007.2
98	627.2	824.2	981.4	991.4	1000.0	1008.6	1017.2
99	633.6	832.6	991.4	1001.4	1010.0	1018.6	1027.2
100	640.0	841.0	1001.4	1011.4	1020.0	1028.6	1037.2

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1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

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1. The first step is to identify the problem.
 2. The second step is to define the problem.
 3. The third step is to analyze the problem.
 4. The fourth step is to develop a solution.
 5. The fifth step is to implement the solution.
 6. The sixth step is to evaluate the solution.
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